SHARP

MX-M1100
MX-M950
MX-M850

Black & White Production Machines

SALES GUIDE

SHARP ***DOCUMENT*** SOLUTIONS

Introduction

Sharp's MX-M850/MX-M950/MX-M1100 production machines set a whole new performance benchmark for high-speed black & white machines. Ideal for demanding office and production environments, they deliver unrivalled versatility, best-in-class paper support, the fastest input speed and the ability to handle average monthly volumes as high as 300,000 pages, with occasional peaks of up to 500,000. What's more, their highly customisable software architecture and exceptional choice of options mean that they can be fully customised to your precise and individual needs. Whether you choose the 85, 95 or 110cpm model, your customer will be getting a powerful, versatile solution with designed-in durability for lasting performance.

Key features:

- Output speed: 85, 95, 110 ppm
- Std 250-sheet DSPF with optional colour scanning - industry leading scanning speed of 85 opm (MX-M850) and 120 opm (MX-M1100/950)
- Paper capacity up to 8050 sheets (8 way paper supply)
- 'Load while run' easy toner changing
- Versatile finishing options
- Full front access to all the key components of the machine for easy maintenance and thus maximum uptime

The MX-M850/MX-M950/MX-M1100 are perfect for production facilities in private and public sectors alike. Tough, multi-layered security, for example, makes it ideal for financial, legal, medical and other departments that handle confidential information. Low running costs and high configurability make it a good choice for government, education and anywhere that value for money is crucial. And superb reliability, easy maintenance, and a wide range of finishing options means that every model is a valuable asset for any busy copy shop or reprohouse

BLI Pick of the Year 2007 (MX-M950, MX-M850)
Segment 6 monochrome MFPs

Office configuration

Production configuration

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Sharp MX-M850 (office configuration*) vs. Xerox WorkCentre Pro 90 .....
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Sharp MX-M850 vs. Oce VarioPrint 2090 .....
Sharp MX-M850 vs. Ricoh Aficio MP 9000 .....
Sharp MX-M950 vs. Canon iR 7095 .....
Sharp MX-M950 vs. Konica Minolta Bizhub Pro 920 .....
Sharp MX-M950 vs. Oce VarioPrint 2100 Titanium .....
Sharp MX-M950 vs. Ricoh Aficio MP 9000 .....
Sharp MX-M1100 vs. Canon iR 7105 .....
Sharp MX-M1100 vs. Konica Minolta Bizhub Pro 1050 .....
Sharp MX-M1100 vs. Oce VarioPrint 2110 Titanium .....
Sharp MX-M1100 vs. Ricoh Aficio MP 1100 .....
Sharp MX-M1100 vs. Ricoh Aficio MP 1350 .....

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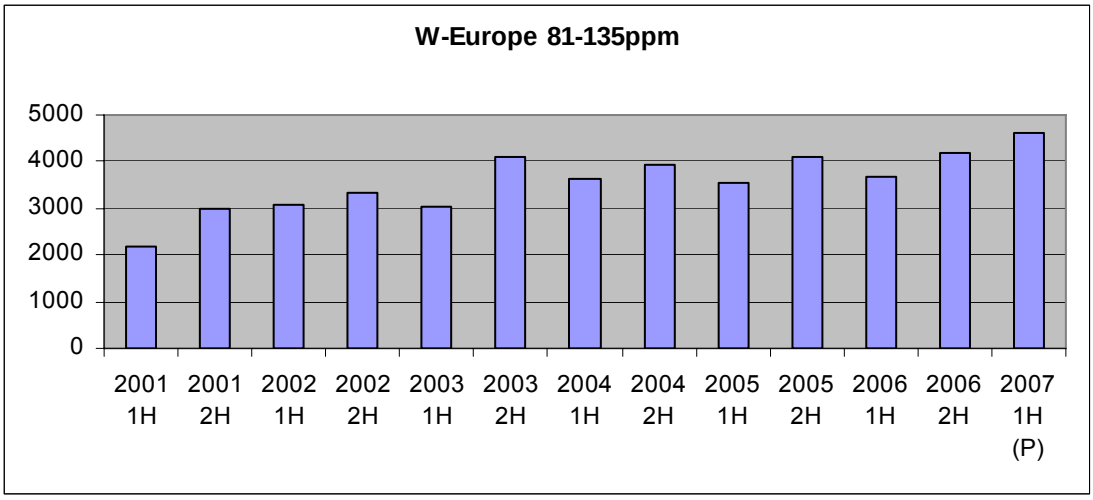
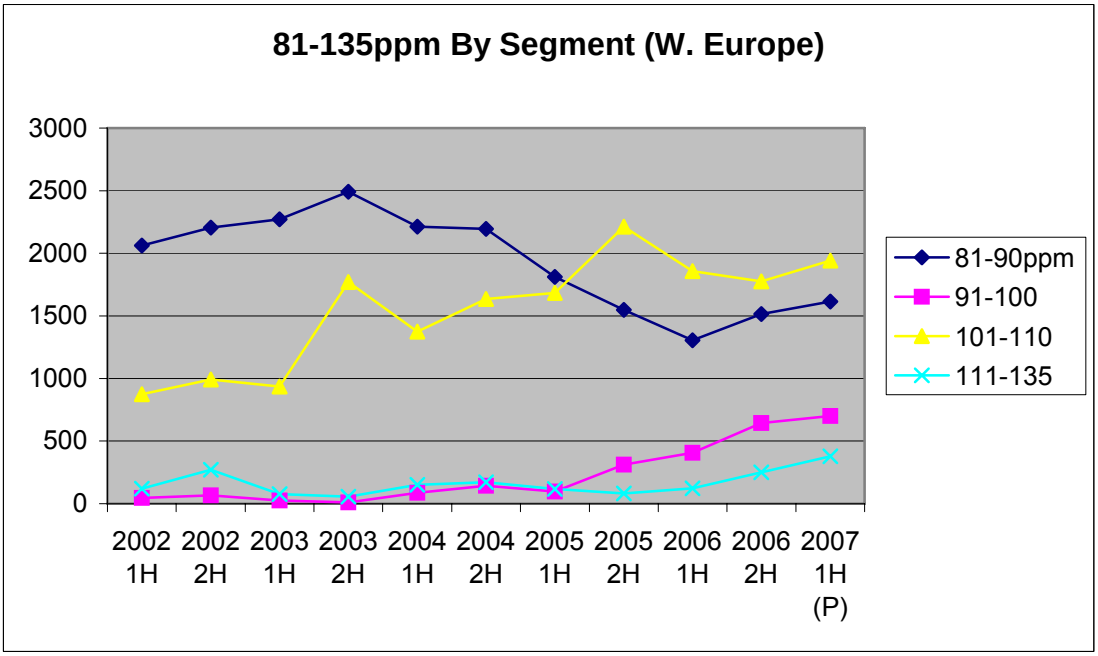
Market Analysis

Overall Market Analysis

The 81-135ppm MFP sector has shown good growth over recent years, returning a 13% CAGR since 2001 (source: Infosource).



However, this overview masks the trends within the sector:



Whilst the CAGR of the sector is a healthy 13%, this growth is not distributed evenly across the speed ranges.

According to Infosource, the CAGR's of the different sectors are:

Segment	CAGR	% of 2007 1H Market
81-90	-5%	34.84%
91-100	73%	15.09%
101-110	17%	41.9%
111-135	26%	8.18%

Clearly, the 81-90ppm and 101-110 segments dominate this part of the market, taking well over 75% (2007 1H projected data). However, the long-term trend of the 81-90ppm market is slightly negative, whereas the 101-110 segment is increasing very quickly, suggesting an overall general shift to faster machines in this area.

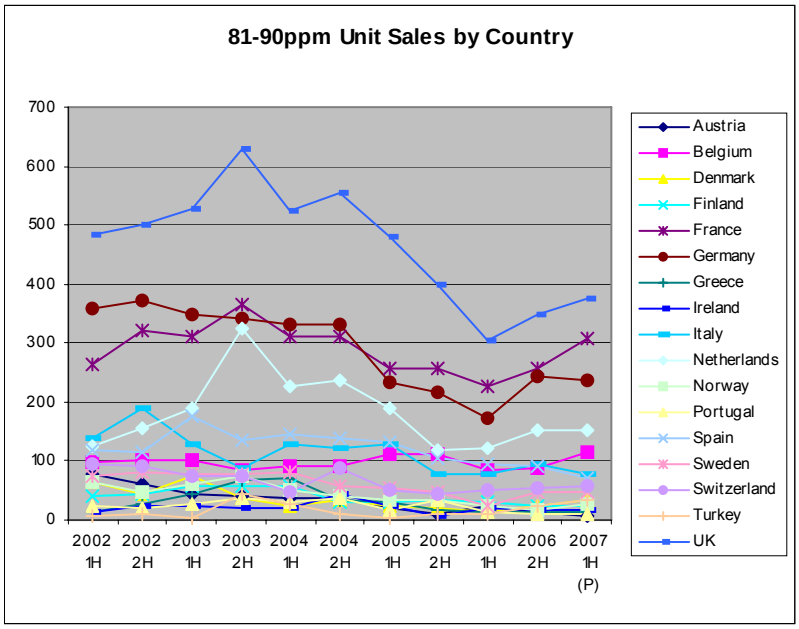
Even if this hypothesis is true, it will still be some time before the 91-110ppm segment overtakes the 81-90ppm segment, therefore it is reasonable to believe that the MX-M850 and MX-M1100 will be the biggest sellers for Sharp, especially since the MX-M850 can be sold in Sharp's existing office market.

The 111-135 sector accounts for less than 9% of the overall market, but has increased rapidly over recent years

Segment Trends by Country

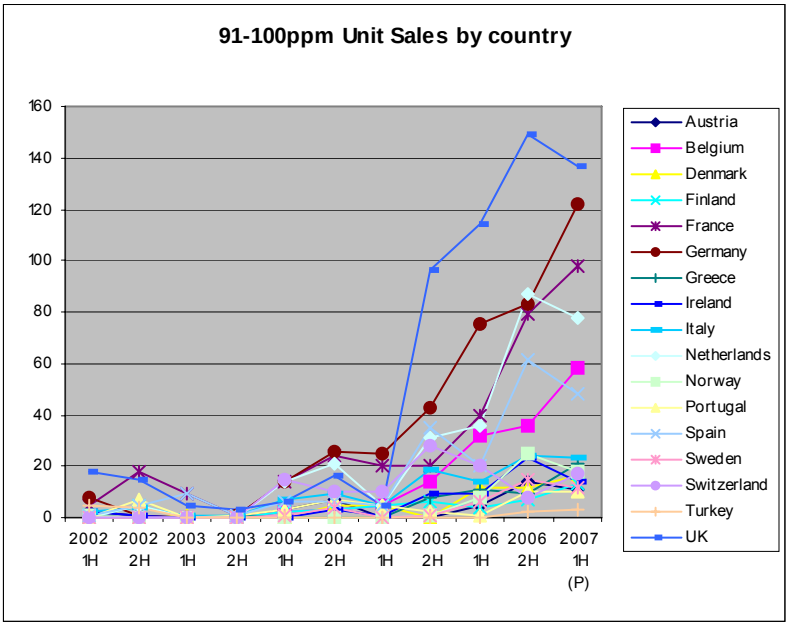
81-90ppm

- UK is the largest market, and has been since 2002, however the UK markets CAGR is –36%, despite recent increases
- France & Germany are 2nd & 3rd respectively, with the Netherlands in 4th
- Turkey has the highest CAGR, although unit sales are very low
- Ireland has a relatively high CAGR of 8%
- Of the top 4 countries, only France (3%) and Netherlands (4%) have a positive CAGR since 2002.



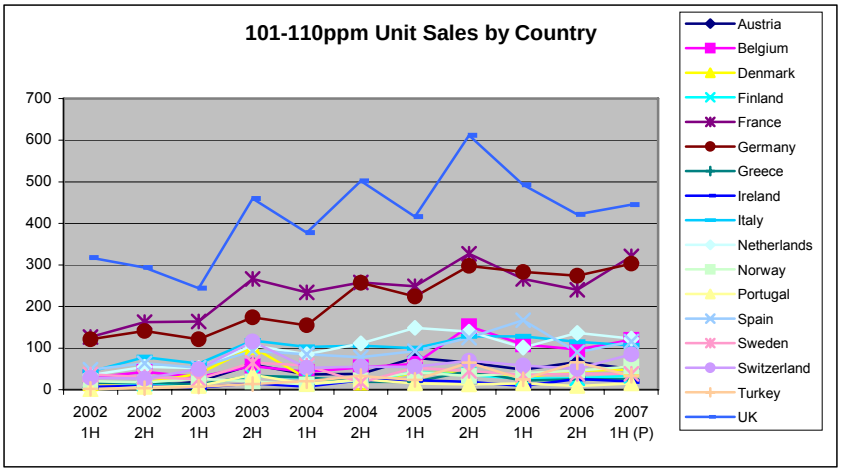
91-100ppm

- The main reason for the huge overall CAGR since 2002 is the relatively small size of the market until 2005.
- Almost all countries show a CAGR of at least 50% since 2002.
- The UK & Germany are the market leaders, with France & Netherlands following
- Over the last 2 years, the UK's growth has been relatively slow compared to Germany, France and Netherlands.



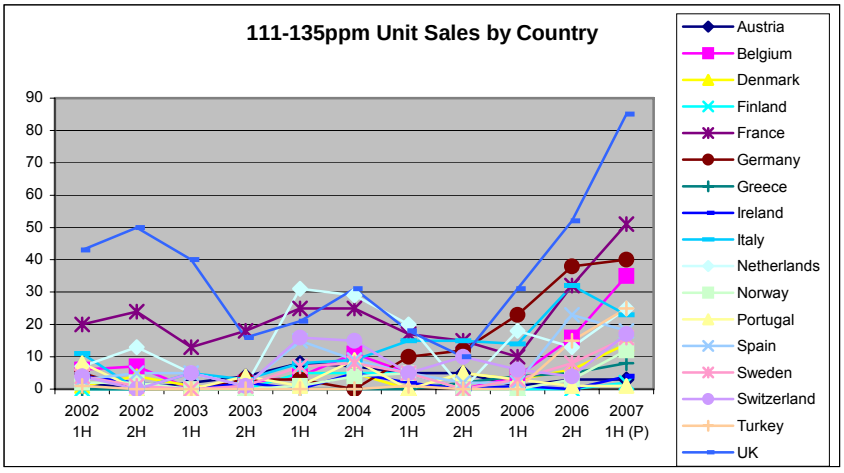
101-110ppm

- Again, the UK is the largest single market
- France & Germany are almost equal in market size, with the rest of Europe a long way behind
- France & Germany share a CAGR of 20%, whereas the UK's is 7% (since 2002)

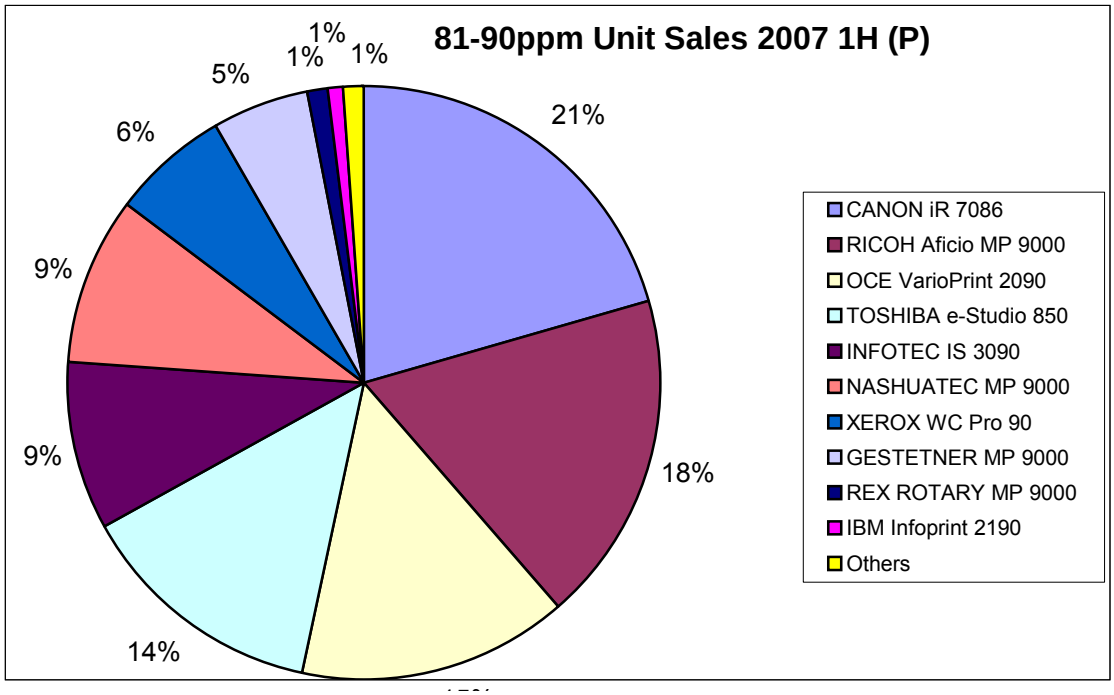


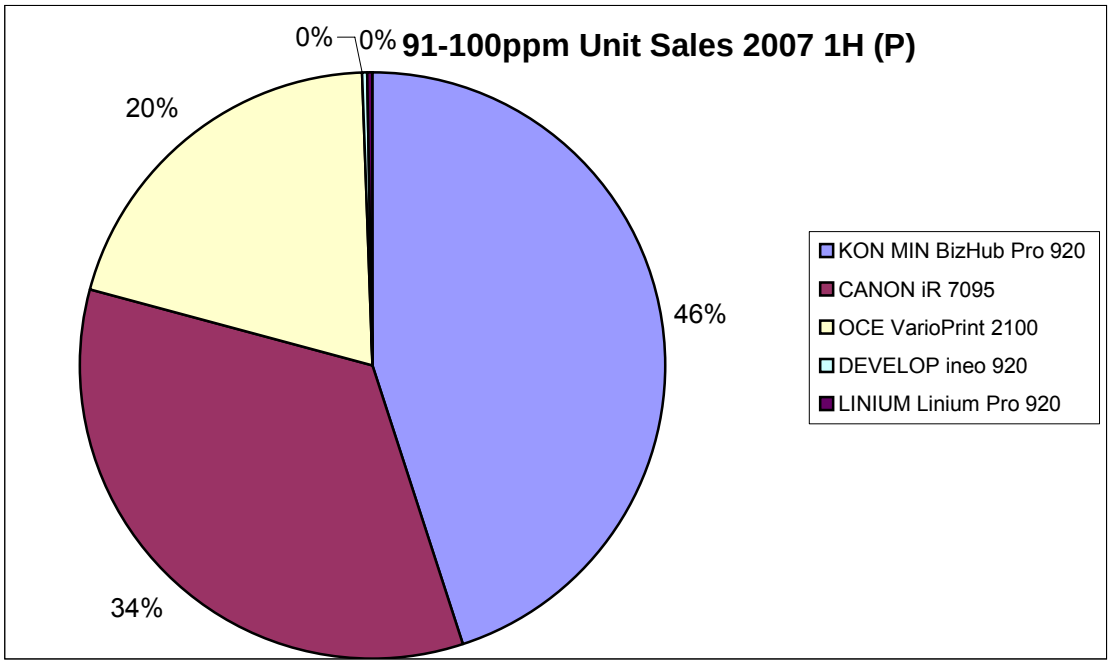
111-135ppm

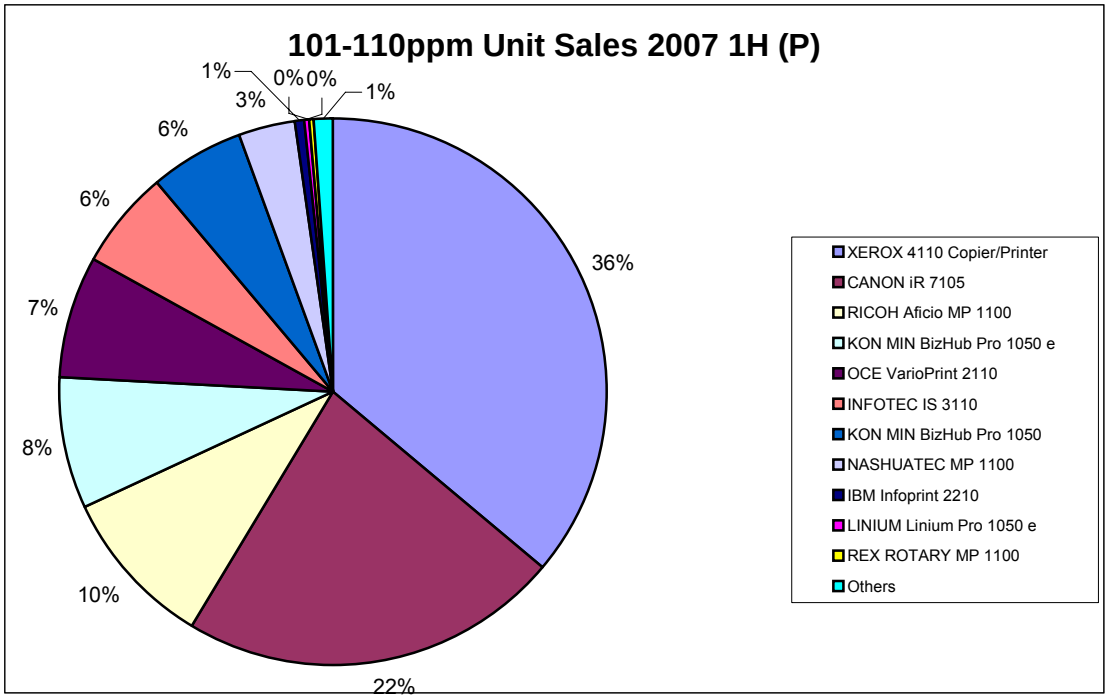
- Whilst this segment is still a small part of the market, it is clearly growing rapidly
- In terms of countries, France & Germany follow the UK, however if we combine the countries covered by Belgium, Netherlands, it takes 2nd place in 2007.

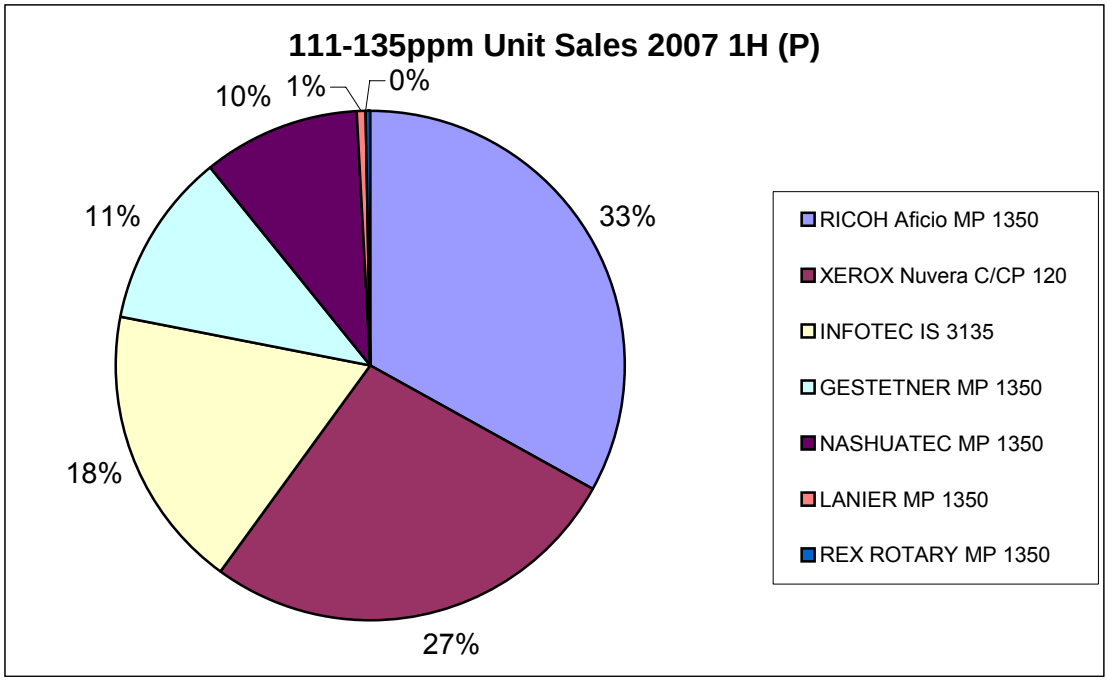


Main Competitors by Model (source: Infosource)

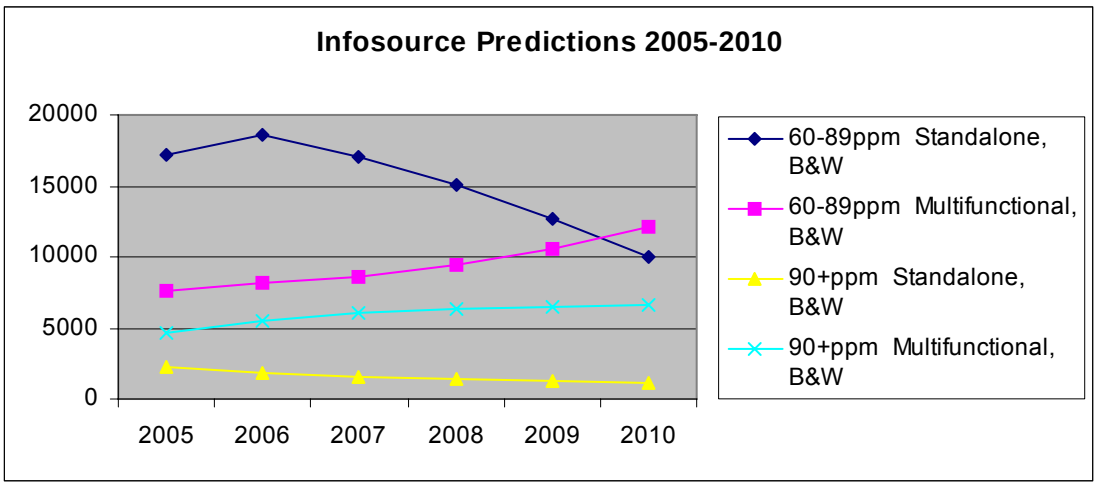




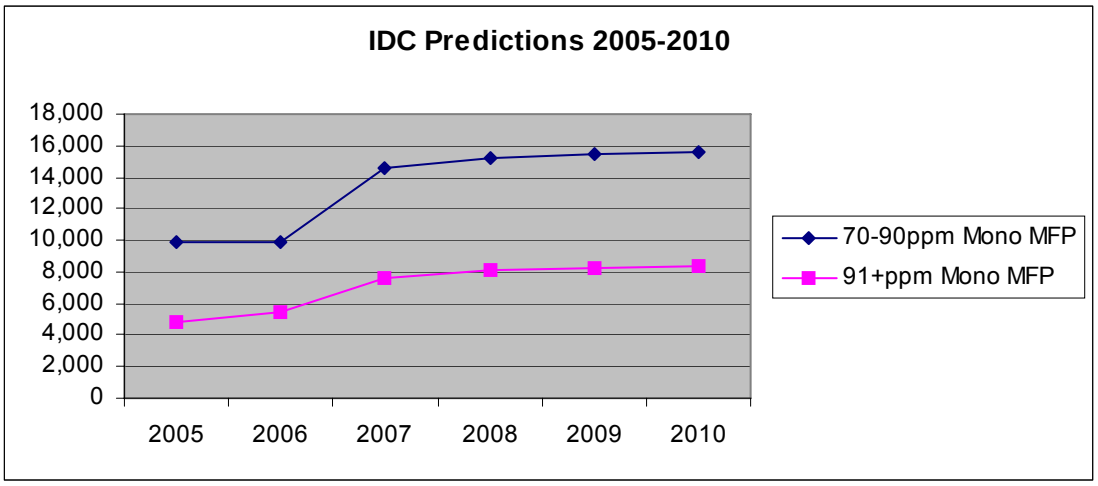

101-110ppm Unit Sales 2007 1H (P)
36%
22%
10%
8%
7%
6%
6%
3%
1%
0%
0%
1%
XEROX 4110 Copier/Printer
CANON iR 7105
RICOH Aficio MP 1100
KON MIN BizHub Pro 1050 e
OCE VarioPrint 2110
INFOTEC IS 3110
KON MIN BizHub Pro 1050
NASHUATEC MP 1100
IBM Infoprint 2210
LINIUM Linium Pro 1050 e
REX ROTARY MP 1100
Others


111-135ppm Unit Sales 2007 1H (P)
33%
27%
18%
11%
10%
1%
0%
RICOH Aficio MP 1350
XEROX Nuvera C/CP 120
INFOTEC IS 3135
GESTETNER MP 1350
NASHUATEC MP 1350
LANIER MP 1350
REX ROTARY MP 1350

The Future



- Sales of stand-alone machines declining in both speed segments, sales of MFPs increasing in both speed segments
- 60-89ppm segment sees a –2% CAGR overall, whereas the 90+ppm segment sees a +2% CAGR

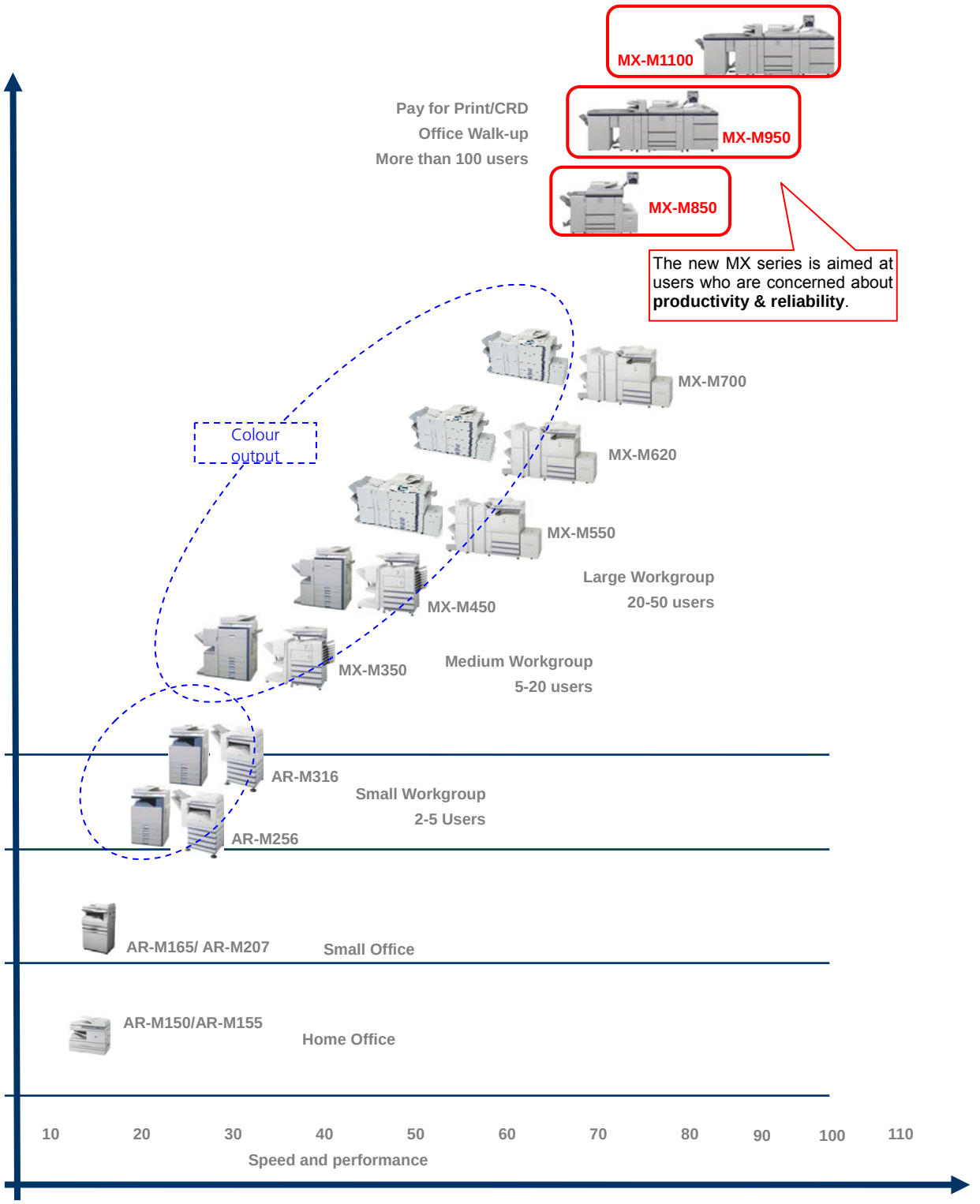


- 70-90ppm segment +10% CAGR
- 91+ppm segment +12% CAGR
- Much of this CAGR is to be produced in 2007, with a large jump in unit sales predicted.
- After 2007, both speed segments will continue to increase, albeit at a slower pace

Conclusion - this segment will continue to grow

Product Positioning

■ Product range positioning



■ Recommended MCV

Speed	Model	Optimum Volume		Life	Maximum Monthly Volume
		From	To		
110	MX-M1100	*150k*	*300k*	*24000k or 5 years*	*500k*
95	MX-M950	*100k*	*250k*	*24000k or 5 years*	*500K*
85	MX-M850	*50k*	*200k*	*24000k or 5 years*	*500k*

Optimum Monthly Volume

The recommended volume at which the copier/printer will maintain an optimum performance level on an on-going basis.

Machine Life

The Machine Life represents the product design life for a machine that has used genuine Sharp supplies and has been serviced at the preventative maintenance schedule by fully experienced technicians. It is intended for planning purposes only due to the influence on the life of the product by external sources such as environment, customer handling, copy/print media used and geographical location.

Maximum Monthly Volume

Indicates the greatest volume the copier/printer can handle, when work patterns demand. Continual copying/printing at the maximum level can result in reduced performance and a shorter overall life.

Overview of Product features

The MX series offer all the specifications of a black & white machine, (plus optional colour scanning). Features that are particularly important in high-speed production are highlighted in RED.

High Productivity

- Engine Speed : 110ppm / 95ppm / 85ppm and tandem copy / printing
- High Level Copy and Print Performance
- Warm up time: 240 sec.
- A3 speed ratio against A4: 51.8 % (MX-M1100)
- Std B/W DSPF with opt. colour capability
- Original Feeding Speed: 120 opm*1
- Max. Paper Supply: 8,050 sheets
- 'Load while run' toner changing

Paper Handling

- A3/A4 paper deck (Opt 1 tray / 3 tray)
- 100 sheets bypass (Opt)
- Heavy paper support (duplex 205 gsm / max 300 gsm)
- A3W size paper support
- Stack-less Duplex (Std)
- Full Bleed Copy (Not only A3 size original)
- Small (thin) documents can be scanned by Slow Scan mode

Environmentally Friendly

- Energy saving mode (Pre-heat, Auto shut-off)
- Energy save key
- Conforms to RoHS, WEEE directive

Various Finishing

- Saddle stitch finisher for booklet creation (Opt)
- Max 100 sheet staple finisher
- Inserter (2 types of paper can be inserted)
- GBC punch unit (available at a later date)
- Paper folding unit

High Image Quality

- New toner technology
- Developer Cooling system for image quality/stability

Easy to Use

- 10.4" Colour Touch TFT LCD
- Adjustable Operation Panel with arm
- Job Status Lamp for visible diagnosis
- Full Front access for paper supply and removal of any paper jam

MX-M1100

Document Filing

- 80 GB HDD storage
- All data (Copy, Print, Scan, Fax sending) can be stored.
- File server capabilities
- Customisable with private folders
- PIN protection available
- Easy to Re-copy/Re-print/Re-send

High Reliability

- Ave. Copy/Print Volume up to 300 K
- Highly rigid Frame for durability
- Double feed detection*1
- Image adjustment for Admin
- MCBF : 200 K
- Full front access to all the key components
- Independent motor units

Secure Data Handling

- Erase and Encryption (DSK)
- IP/Mac filtering
- Document Control
- Encrypted PDF
- Network Encryption (SSL)
- LDAP Authentication
- IP-SEC

Efficient Utilities Software

- Document management software - Sharpdesk (Opt)
- Network Scan tool (Opt)
- PC-Fax driver (Opt)
- Sharp Status Monitor (Std)
- Sharp Admin Utility 4.03 (Std)

Expandability (Only NIC is Std)

- NIC (Standard)
- Selectable Print controller -Sharp/ Fiery Print Controller)
- PostScript PDL
- Barcode font kit
- Optional stamp unit for checking all documents are fed by DSPF
- Fax availability*2
- Internet Fax
- Network scanner
- Colour scanner kit
- Customisable applications via Sharp

*1 : Only 95/110 cpm machine

*2 : Depends on destination

PRODUCT CONCEPT

■ Overview of the product concept

MX-M850/950/1100 series is designed around the following four concepts to provide maximum performance: High-lighted features are Best in this class

Productivity

- Speed 85, 95, 110 ppm engines
- Max paper capacity of 8050 sheets & 8 way paper supply
- Tandem function increases speed and paper capacity
- High level copy and print performance
- High speed 250-sheet DSPF (optional colour capability)
- Supporting heavy material for Professional-looking output
- Various finishing options
- Stamp unit marks already scanned documents for checking
- Toner can be changed whilst the machine is running

Reliability / Serviceability

- Long 'machine life', 'PM cycle' and 'consumables life'
- Highly durable main frame for extra stability
- Multiple independently driven units for increased durability
- Multi-feed detection sensor units (MX-M950 and MX-M1100 only)
- Developer cooling system unit for better image quality
- Full front acces to all the key components of the machine to ensure easy mainenance and thus maximum uptime

Operability

- 10.4 inch colour touch LCD screen
- Job status lamp for visible machine diagnosis
- Selectable operation environment by User Authentification
- Easy toner replacement
- Document Filing for quick reuse of data
- Standard network admin functions (allows remote checking of the status of the machine and easy device management using embedded web page)

Expandability

- Network printer (Sharp, EFI Fiery® Print Controller) / Network scanner (B/W, Colour)/ Fax / i-Fax
- Sharp OSA®- allows third-party software developers to create custom applications that link MFP to software programmes on a server or PC
- Data Security Kit (Data Erase / Data Encryption / Document Control)
- USB devices (Key board / memory stick / etc.)
- Supporting next generation network protocol "IPv6"(Available at a later date)

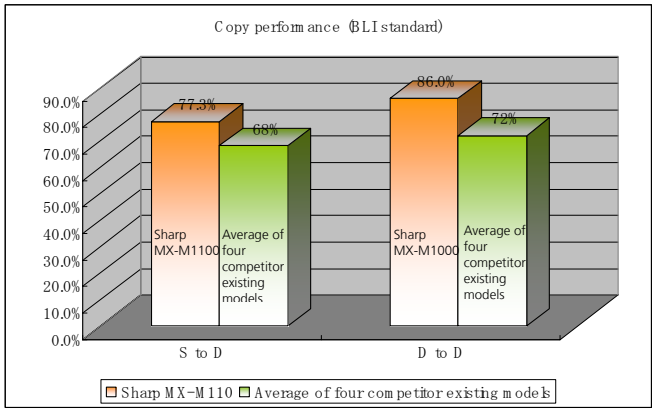
■ Key Selling Points

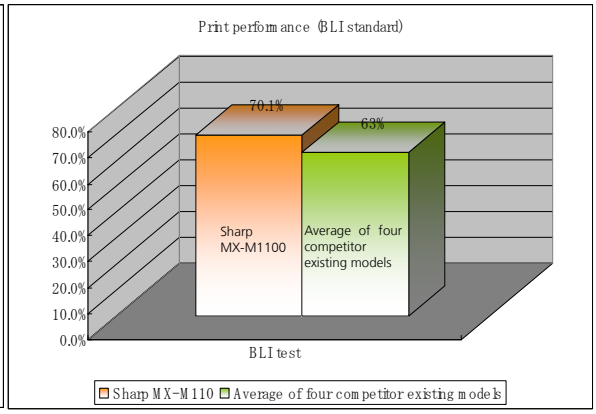
Productivity

❖ High Speed engine 85, 95, 110 ppm

❖ High level copy and print performance Best in this class

"Copy / Print performance"is a very important feature in high speed machines. The MX-M1100 / 950 / 850 series offers top level performance in its class.





❖ Media support and paper handling capability

Users in CRD and Pay for Print markets often require two things in paper material specification area. These are; paper handling capability and supported media weight / size" for proffesional-looking output.

Sharp MX-M1100/950/850 series is very competitve in both of these areas.

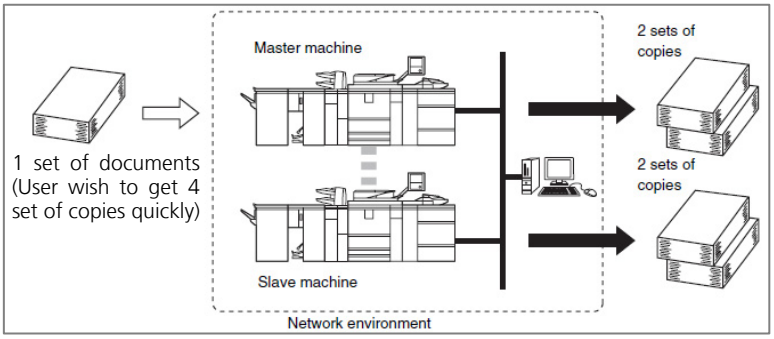
Max. paper capacity of 8050 sheets & 8 way paper supply Best in this class
SRA3 (320x470mm) can be fed
300 g/m^2 supported Best in this class
205 g/^{m2} original supported Best in this class

With **A4** 3 trays LCC: Max **8050 sheets**

With **A3** 3 trays LCC: Max **7500 sheets**

❖ Tandem function increases speed and paper capacity

Because MX-M1100/950/850 series has NIC as standard, customers who use two or more MX-M1100/950/850 machines can use the "Tandem copy function". This increases the speed up to 220 cpm and paper capacity up to 16,100 sheets.



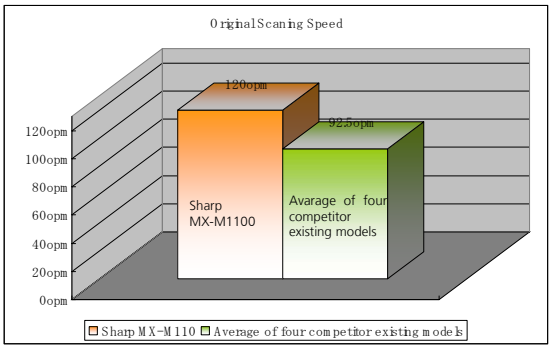
With the print option, this function can be used for printing jobs too.

❖ Exceptionally fast DSPF scanning Best in this class

Scanning Performance is especially important feature for modern CRD and Pay for Print users. It is not only needed for copy jobs but also in paper document digitalization process as well.

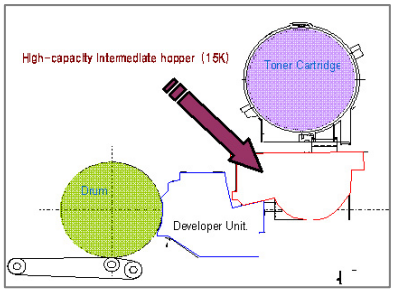
MX-M1100/950/850 series has large capacity DSPF (up to 250 sheets) with fast scanning speed;

- 120 opm (MX-M1100/950)
- 85 opm (MX-M850)



❖ Toner can be changed whilst the machine is running Best in this class

MX-M850/950/1100 series has a very large intermediate toner hopper (15k). Toner changing is easy and it can be done whilst the machine is running and thus it has no effect on the productivity of the machine.

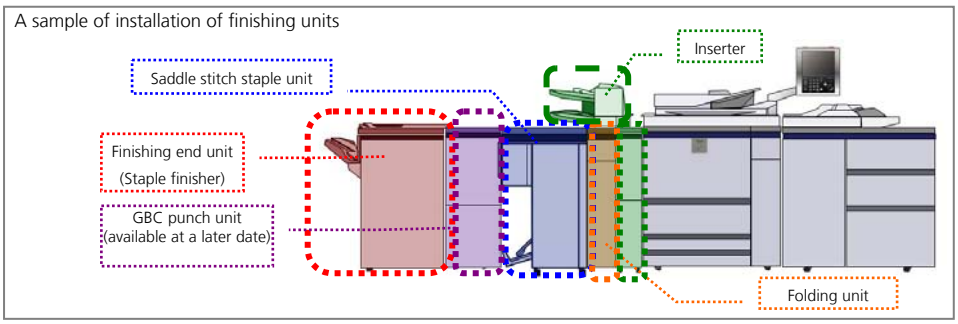


This is important in terms maximum machine uptime and the hopper is especially convenient if the toner needs to be ordered, as with the hopper, the machine can run for a few days after the main toner cartridge has finished (For example, in case of '150k / month user', it can be used for about two days after the toner cartridge has finished)

❖ Various Finishing Options

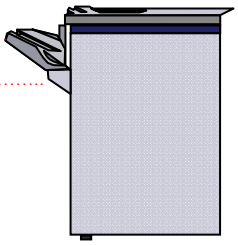
High speed machines require versatility in finishing. (Especially 'CRD/Pay for Print markets')
Therefore, MX-M1100/950/850 is designed to offer various finishing options to meet various finishing needs. (*Note: MX-M850/950/1100 series can not be used without finishing options.)

A sample of installation of finishing units



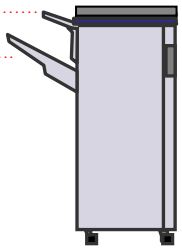
Finishing End Unit

Max output
500 sheets .....
Max output .....
3000 sheets



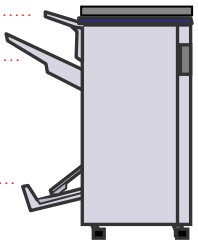
Finisher (Max 100 sheet staple)

Max output
250 sheets .....
Max output .....
3000 sheets



Finisher (Max 50 sheet staple)
For MX-M850

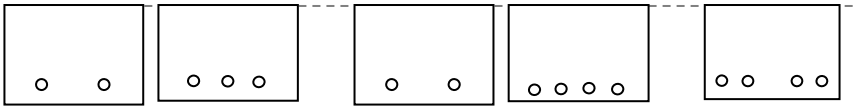
Max output
250 sheets .....
Max output .....
2000 sheets
Max output
150 Sheets .....
(For example
5 sheets x 30
10 sheets x 15
15 sheets x10)



Saddle Stitch Finisher
For MX-M850 only

Hole punch unit (to be installed in Finisher or Saddle stitch finisher)

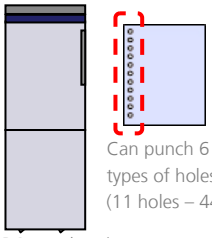
There are 3 types from which one can be chosen.



2 holes or 3 holes* | 2 holes or 4 holes | 4 holes wide

* 3 holes can be available with the 'Max 100 sheets Finisher' only.

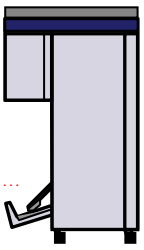
Other Finishing units (to be installed between MFP and 'Max 100 sheets Staple Finisher')



GBC punch unit
(available at a later date)

Can punch 6 types of holes
(11 holes – 44 holes)

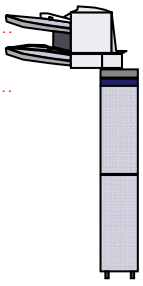
Max output
150 Sheets
(For example
5 sheets x 30
10 sheets x 15
15 sheets x10) .....



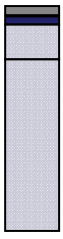
Saddle Stitch staple unit

Max 205g/m2 paper can be inserted for offline finishing .....

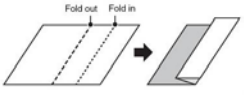
Up to 2000 sheets ...
X 2 types of paper material



Inserter



Folding unit



Folded output can reduce the paper size by half

Loaded paper size	Paper size after folding	Stapling after folding
A4R	A5	N/A
B4	B5	Available
A3	A4	Available

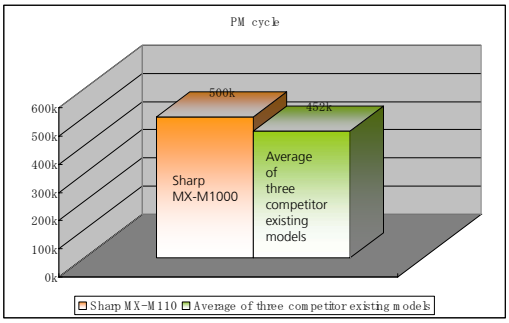
Reliability / Serviceability

❖ Long Machine life

MX-M1100/950/850 is designed to withstand long continuous usage. Machine life is 24000k or 5 years, and maximum monthly volume is up to 500k.

❖ Long life PM cycle (500k)

During maitenance machine cannot be used, therefore, PM cycle is a very important feature for high-speed production machines.
MX-M1100/950/850 has a long life PM cycle (500k), and it is one of the best in class.



❖ Highly Durable Main Frame

The basis of a reliable machine is a stable structure.
A newly developed, highly-rigid frame helps to protect and isolate critical machine components and this way ensures increased reliability and durability during high speed and high-volume output.
In addition, stability of the machine has been improved by keeping mechanical stress and distortion as low as possible.

❖ Multiple Independently Driven Units for increased durability

Independent motor units are employed for essential key sections of the MX-M1100/M950/M850 such as the paper pick-up unit, the paper transfer unit, etc. This design improvement provides highly reliable operation and helps to ensure dependable paper transportation throughouteach reprographic cycle, increasing durability for the long run.

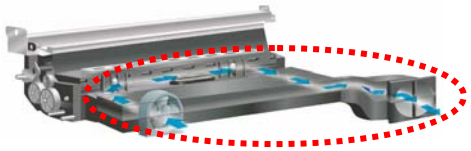
❖ Multi-Feed Detection Sensor units* (*MX-M950 and MX-M1100 only)

The precision engineering design of the Sharp multi-feed detection system employs ultrasonic technology to help diagnose and detect misfeeds from the document feeder as well as the paper feed section from the paper trays.

Note : transparent paper and label paper are not detected.

❖ Developer Cooling System unit for better image quality

The MX-M1100/M950/M850 forced-air cooling system for the developer unit helps prevent excessive heat build-up to keep image quality stable even in high-volume environments.



Air-cooling system

❖ Non-Detachable Maintenance (full front access to all the key components of the machine)

This design makes service and general maintenance of the MX-M1100/M950/M850 easy by allowing technicians to slide out main units without the need to disassemble the entire machine to adjust or exchange sub-components.
This helps to maintain maximum machine uptime

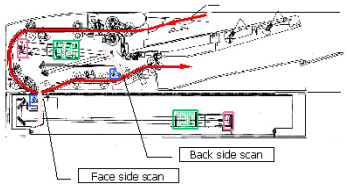
❖ Stamp unit marks already scanned documents for checking

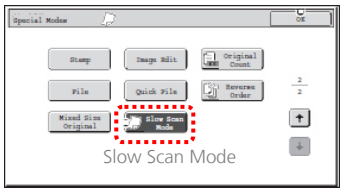
Although there is a Multi-Feed Detection Sensor in DSPF, users may wish to get evidence that all their documents have been scanned without any problems. (e.g. in case of important fax sending, or paper document digitalisation)
The stamp unit allows to check which documents have already been scanned, and in case of a duplex original, the marks are stamped twice on the front side of document.

❖ DSPF with simple 'Original sheet pass' and 'Slow scan mode'

Compared to the Auto Document Feeder, the DSPF has a simple 'Original sheet pass'. Therefore it can reduce any possible document jam and thus shorten the machine downtime and cause less damage in the originals
Furthermore, MX-M1100/M950/M850 has 'Slow scan mode' for scanning small (thin) documents.
This further increases the machine reliability.

Because 'Original sheet pass' is very simple, Paper jam incidents are easily reduced





38g/m2 – 49g/m2 documents can be scanned by DSPF.
Although the name is 'Slow Scan', the scan speed is 80 opm (faster than in MX-M700)

❖ Job status lamp for visible machine diagnosis

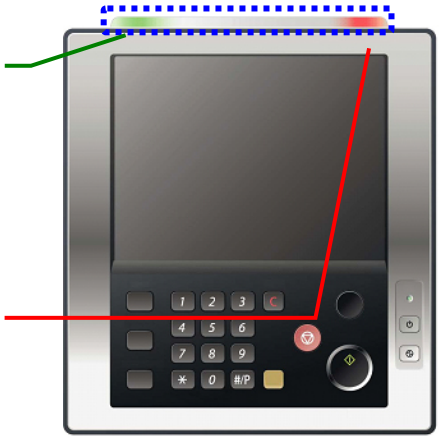
The lamp enhances visibility of the machine from right across the room.
It can shorten the machine downtime.
Red and Green lights indicate the machine status.

Green Lamp : Indicates machine has no problems
(There are the following two patterns.)

Pattern1.(Default)
No light: Not ready
Light on: Job in progress
Blinking: Ready

Pattern2.
No light: Waiting
Light on: Scanning originals
Blinking: Job in execution

Red Lamp : Indicates problems.
Light on: Can operate (toner near the end etc.)
Blinking: Cannot operate (toner run out/paper jam, etc.)



❖ E-mail alert / Printer Status Monitor

As with other Sharp MFPs, MX-M1100/950/850 can give warning about machine status via an e-mail.
If the machine needs attention, an administrator will get a notice of this to PC screen.
Other users can also see the status of their print jobs by using the Printer Status Monitor.

❖ Remote / USB firmware update

Unlike some machines, which require 'chip changing' for firmware update, the MX-M1100/950/850 can be updated remotely. This also helps to shorten the machine downtime.

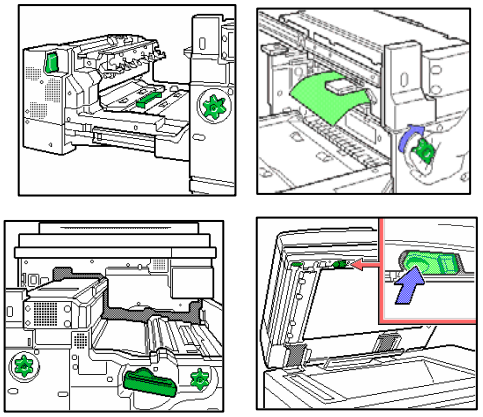
Operability

❖ 10.4 inch colour touch LCD screen

The size of the touch panel makes it highly visible and user-friendly

10.4 inch colour touch LCD
211.2MM x 158.4mm VGA (640 dots x 480 dots)

Example:Paper jam guidance screens



Only important parts are highlighted in colour. Therefore it is easy to see where the problem is.

Example:Keyboard in screen

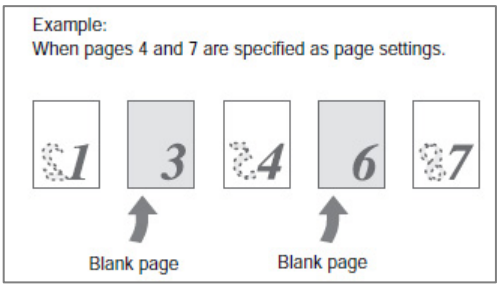
Compared with H-VGA (640 x 240 dots) keyboard, both the 'size of the key' and the 'distance between keys' is big, making it more user friendly

❖ Selectable operation environment (e.g. language / home screen) with 'User Authentification'

With User Authentification Function, MX-M1100/950/850 series can offer a customisable operation environment for each user. (e.g. correct language is displayed automatically.)

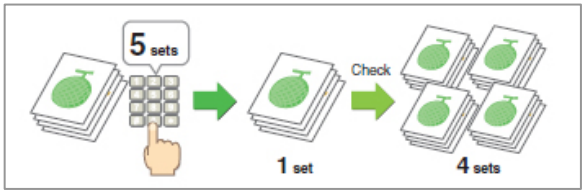
❖ Chapter insert

When performing two-sided printing, there can be a request that the first page of all the chapters should be placed on a certain side of the facing pages to ensure professional looking output.
In order to meet this type of request, MX-M1100 / 950 / 850 has a 'Chapter insert function'.
This complicated job can be done by users inputting specific page numbers to the printer driver interface.



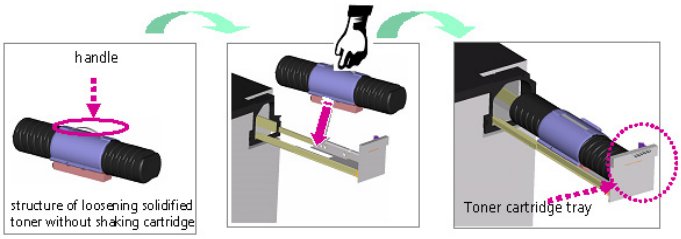
❖ Proof copy / print for easy checking

Before producing multiple copies of a complex print or copy job, the proof function allows you to check that all the settings are correct before producing the entire batch of required documents.



❖ Easy toner replacement

Due to an 'easy to pull out' toner cartridge tray and an 'easy to carry' handle' on the cartridge , changing toner is very easy



❖ Document Filing for quick reuse of data

Many production machines are used to produce complex jobs that need mutliple settings (For example, inserting page numbers, document build, ratio settings etc.).

MX-M1100/950/850 has a Document Filing function for quick retrieval and re-use of data. This ensures that even most complicated print jobs can be re-produced quickly and without any hassle.

The handout was not saved using document filing	The handout was saved using document filing
Ratio and special mode settings must be reselected. The numerous original pages must all be rescanned. Not likely to be completed in time for the meeting...	The stored file is simply retrieved and printed. Printing is accomplished quickly and the handout is ready in time for the meeting!
Copy settings must be reselected and the original must be rescanned. As indicated above, to obtain another set of output, the settings must be selected all over again. If you don't remember the settings, much effort may be expended to get the same output result as the previous time.	By retrieving a job stored using document filing, there is no need to reselect copy settings or rescan the original. The job can be retrieved and printed using the same settings quickly and easily.

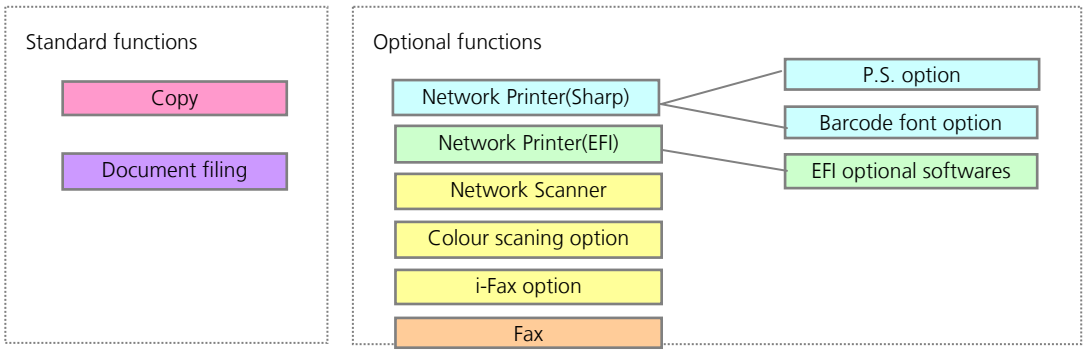
❖ Standard network admin functions

The administrators can configure the machine by using an embedded web page. It also provides remote use of the machine

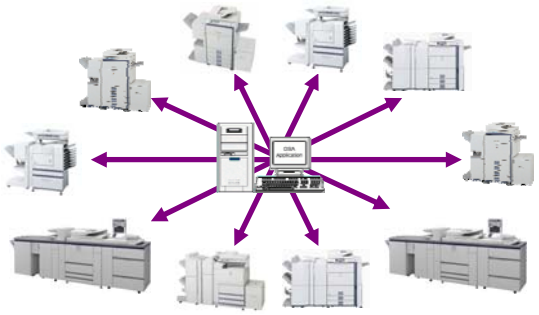
Expandability

❖ Versatile multifunctional options

Users of MX-M1100/950/850 can expand its functions according to their needs, thanks to a wide variety of options available.These options often make jobs quick and easy saving time and money (e.g. hardware cost, space cost, machine/consumable management cost)



❖ Sharp OSA™ One of a kind



Like other MX series machines, the MX-M1100/950/850 can be installed with Sharp OSA® (Open Systems Architecture).

It allows third-party software developers to create custom applications that link the MFP to software programmes on a server or on a PC.

The LCD control panel is used to access and operate these software programmes.

Some competitors have similar package available but due to clever solutions and short development cycle, Sharp OSA is one of the best customised solution options available

❖ EFI Fiery Print Controller

Processing certain types of files, or particularly large files can require large amounts of processing power, and it can also take a long time. By adding an optional MX-PEX3 Fiery print controller, the MX-M1100/950/850 will be able to process and therefore print these documents much more efficiently.

[Specialised hardware for RIP and 'Smart Rip' technology]

MX-PEX3 has high performance hardware'(e.g. 'Intel Celeron D 2.8GHz CPU' and '80GB 7200rpm SATA HDD'). These work on a stable System OS (Linux), and are not used for copying or faxing.

'Smart Rip' is a software technology designed to accelerate image processing (RIP). This technology enables complex, memory-intensive graphics and bulk jobs to be printed at high speed from applications.

[Genuine Adobe PostScript3, PCL6/5e supported]

The EFI Fiery Print Controller supports Genuine Adobe PostScript3 and PCL6/5e printer language emulation.

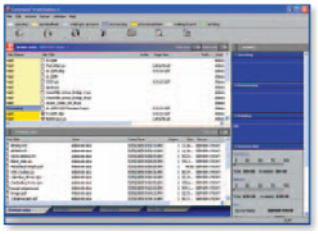
Adobe PostScript3 provides better graphics handling and compatibility with more fonts.

PCL6/se and Adobe PS3 make sure that what you see on your computer screen is what you will see on printed paper. (refers to layout only. Colour data will be converted into B/W data.)

[Command workstation]

The EFI Fiery Print Controller lets you manipulate jobs that have already been printed. The jobs can be stored in HDD and retrieved at any stage.

Command Workstation®



[Fiery FreeForm / Fiery FreeForm 2]

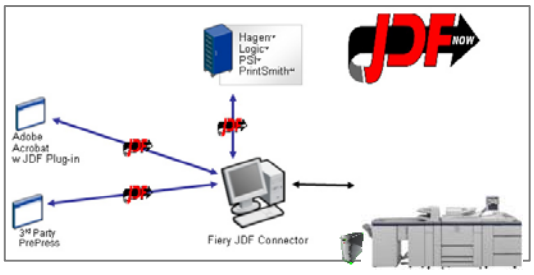
MX-PEX3 Fiery print controller has two tools for Variable Data Printing. Basic 'Fiery FreeForm' RIPs master data once, adds variable data on databases, and prints personalised ouput with MFP's rated engine speed or with a speed close to this. Advanced 'Fiery FreeForm 2' has several added features compared to 'Fiery FreeForm'. It allows users to pick and choose individual pages from a multiple page master file, for instance. 'Fiery FreeForm 2' provides even gretaer personalisation of the output and flexible VDP applications.

[Optional Software] (arranged by sales subsidiary)

The EFI controller can use optional software for high-level printing.

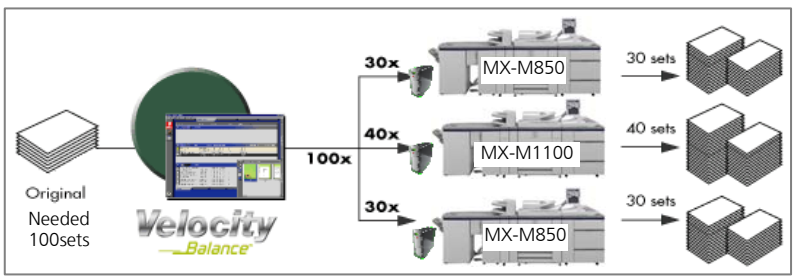
Fiery JDF Connector (job flow management)

Allows integration between the Fiery and 3rd party technologies (e.g. print-MIS systems) to achieve automation and consistent ..... information flow.

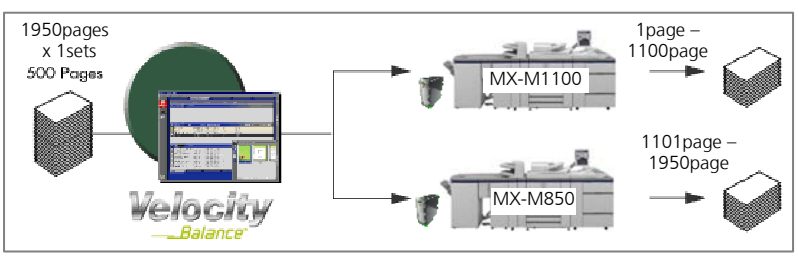


Velocity Balance
(load sharing of bulky print jobs)

'Tandem function' can only use 2 machines. But 'Velocity Balance' can use three or more machines to shorten the processing time.



'Velocity balance' can shorten the time of printing a multi-page/one document files

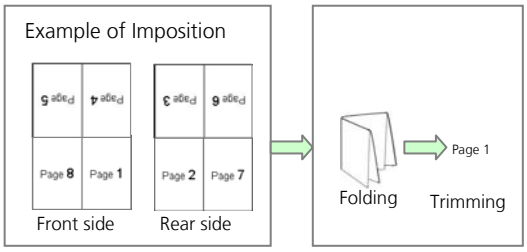


Impose

(Impose printing)

Imposition is the process of arranging pages in the proper print order and format to ensure a correct page sequence once printed sheets are folded and trimmed. And this is sometimes required by 'Pay for print users' and 'In plant print users'.'EFI Impose' streamlines and automates this process.

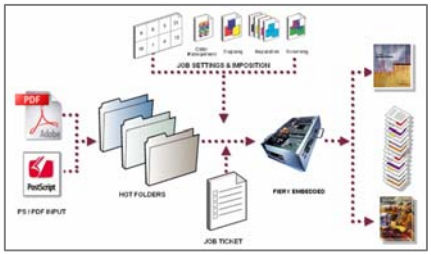
It can increase job speed and reduce costs about error



Hot Folders

(job settings & imposition printing)

Users can save frequently-used settings (e.g. Printing device, size of the form, the number of outputs, double-side printing, and other various output settings) to 'Hot Folders'. These can be retrieved at any time by using 'drag and drop' the print-data to the folder.



❖ Data security kit (Data Erase / Data Encryption / Document Control)

Digital copiers/printers or multifunction products can retain hundreds of pages of confidential information from previous jobs on their hard disks or internal memory. To protect this, the optional Data Security Kit automatically encrypts the data as it is written and securely overwrites it when the job has been completed. (up to seven times)

❖ USB devices

For higher operabillity and security, The MX- M1100/950/850 series has a USB port for USB devices. (e.g. Key board / memory stick / IC Card reader / etc.)
It is easily accessible as it is positioned on the front panel of the main unit.

❖ Supporting next generation network protocol "IPv6"

Some forward-thinking enterprises and public offices have already began to prepare for 'The Next Generation Infrastructure'. The MX- M1100/950/850 series already meets their requirements by offering 'IPv6 support'.

(Available at a later date)

Sales Approach

The MX-M1100/950/850 series is designed for high-speed and high volume office and production environments. The machines have a whole host of features that make them ideal for a variety of businesses. The 85 ppm model is perfect for **large offices** (walk-up use) that have high printing/copying needs. The 95 and 110 models meet even more demanding document production requirements of large organisations such as **education, government, finance and insurance** and also **Print for Pay and Reprographics/CRD** environments where productivity and reliability are an absolute must.

Government – various government bodies (local and national government offices) – no key operator – various printing/copying needs, security and cost efficiency are important,

Education schools, universities – no key operator – various printing/copying needs such as booklets, presentations, forms, they need reliable and fast machine operation

Print for Pay – commercial outlets – key operator **–** requirement is often small volume in short time scale, therefore the need is for fast high quality printing/copying, advanced finishing options and job management tools

CRD a specific print/copy department for a company – key operator - various marketing and conference related printing/copying requirements, speed, reliability, finishing as well as job management options are important.

Finance & Insurance outside the company environment – no key operator – printing needs include specific documents such as invoice or ledger on specified forms by accessing databases

Large offices – Walk –up machines are shared among employees in copy/print room within the office - no key operator – the need is for printing/copying of various office related documents

Target market	Requirement (application/solution)	MX-M1100/950/850 Key Feature
95 & 110 ppm		
Government	▪ Scan to archive solution	— Sharp OSA® Application Integration Module lets users add meta data to scanned documents before sending them directly to apllications for processing or archiving
	▪ Large paper size	— Large paper size support, max size A3W
	▪ Booklet printing	— Optional saddle stitch finisher (15-sheets capability — GBC punch (available at a later date)
	▪ Document filing	— Standard Document Filing funtion simplifies document management and protects the data
	▪ Forms	— Using Sharp OSA® application modules

	▪ Efficient Emailing	— LDAP allows easy browsing and selecting of email addresses for rapid distribution of scanned documents as well as synchronisation with your primary e-mail server
	▪ General finishing	— Flexible finishing options
	▪ Management of large paper volumes	— Optional large paper capacity options inc. from 3000 to 4550 sheet tray options, max capacity of 8050 sheets
	▪ Management of costs	— Cost management with PCounter & Equitrac (with Sharp OSA®) or Metis
	▪ Security	— Various powerful Sharp security solutions to ensure the company data is protected
	▪ Flexibility to manage lots of small jobs	— Continuous print mode ensures multiple small jobs are output quickly
Education	▪ Printing chapters / inserts / tabs	— Possible to print chapters / inserts / tabs
	▪ Forms	— Using Sharp OSA® application modules
	▪ Finishing (reports / coursework)	— Finishing options include inserter and saddle unit and GBC punch unit *
	▪ Security	— Various powerful Sharp security solutions to ensure data is protected

	▪ User friendliness for multiple users	— Large 10.4 inch LCD screen and easy-to-use colour interface & customised user settings
	▪ Large media support	— Paper support A3W – B5R, paper weight 105 – 300 gsm
	▪ Scanning for the creation of a digital archive to be put of web for use of students etc	— With Sharp OSA® application that allows documents to be scanned directly to applications for processing and archiving
	▪ Authentication / cost management	— LDAP authentication, cost management through Sharp OSA® (PCounter/Equitrac) or Metis
	▪ Information storage and distribution	— Standard Document Filing funtion simplifies document management and protects company data
Pay for Print	▪ Booklet printing	— Optional saddle stitch finisher (capacity up to 15 sheets)
	▪ Tab printing	— Tab printing capability
	▪ Finishing in general (100 sheet stapling, folding) GBC/spiral finishing	— Versatile finishing options include 100-sheet stapling capability, folding unit, and GBC punch unit*
	▪ Flexibility, adaptable to different types of order	— Multiple finishing options, small & large paper support, multiple paper types, full-bleed printing
	▪ Quality output	— High toner quality & Developer Cooling System for consistenet image quality

	▪ Durability (reliability)	— Full front access to all the key components means easy servicing thus maximum up time.
Reprographics/ CRD	▪ Global workflow management	— Using Fiery applications (TBC)
	▪ Cost management	— Sharp OSA® applications (with PCounter/Equitrac) Metis
	▪ Flexibility	— Multiple finishing options, small & large paper support, multiple paper types, full-bleed printing
	▪ Performance and job management tools	— Optional Fiery Print Controller enhances the print performance and makes job management easy (TBC)
	▪ Finishing	— Versatile finishing options
	▪ Scanning	— 250 sheet DSPF - exceptionally fast scanning (120 opm MX-M1100/950) 85 opm MX-M850) and colour scanning option
	▪ Booklet creation	— Optional saddle stitch finisher
	▪ Different paper sizes in one document	— Optional Z-folding unit((folds A3 to A4 and A4 to A5 size)
	▪ Operability of the machine	— 10.4 inch LCD screen and highly visible jobs status lamp & embedded webpage

	▪ High production capability	— Tandem function enables 2 machines in the same network to process one print/copy job at the same time
	▪ USB scan & print	— Easy printing from USB and also easy scanning from and to USB
	▪ Customised user settings	— Enables users to specify commonly used, yet complicated, settings quickly
	▪ Paper capacity	— High paper capacity up to 8050 sheets
	▪ Reliability	— Product has engineered to the highest standard – Rigid Main Frame, Developer Cooling System
Finance & Insurance	▪ Cost management	— Sharp OSA® applications (with PCounter/Equitrac) or Metis
	▪ Output quality	— Excellent image quality thanks to a good toner design and Developer Cooling System
	▪ Workflow management	— Using Fiery applications (TBC)
	▪ Flexible finishing	— Versatile finishing options
	▪ Document filing	— Standard Document Filing function simplifies document management and protects company data
	▪ Security	— Various powerful Sharp security solutions to ensure the company data is protected

	▪ Paper capacity (LCC)	— Optional paper trays (from 3000 to 4550 sheet trays) max. capacity of 8050 sheets
	▪ Finishing (for manuals / training / reports)	— Optional Inserter and saddle unit, not to mention the GBC punching unit *
	▪ Forms	— Using Sharp OSA® application modules
85 ppm	Requirement	Key feature
Large offices	▪ Finishing	— Versatile finishing options (finisher and saddle unit)
	▪ Paper capacity	— Large paper capacity options (3000, 3500, 4250 sheet options)
	▪ Ease of use	— Large 10.4 inch LCD screen and easy-to-use colour interface
	▪ Speed (relative to other office products)	— 85 ppm
	▪ High toner capacity	— High toner capacity of 120k plus intermediate hopper 15k
	▪ Customisable software	— Sharp OSA® Open Systems Architecture lets third party developers to create custom applications that link the MFP to software

*Available at a later date

■ Vertical configuration recommendations

CONFIGURATION FOR GOVERNMENT SECTOR

Finishing

1. MX-FNX5 **Finisher**
   Paper size: A3W to A5R, Upper tray: 500 sheets
   Lower tray: 3000 sheets
   Stapling position: 4 locations (top, top slant, bottom, 2 staples)
   Stapling capacity: 100-sheets
2. MX-FNX8 **Saddle unit**
   Paper size: A3W - B5R
   Stapling position: saddle stitch only
   Saddle stitch capacity: up to 15 sheets
   (no hole punch)
3. MX-FDX1 **Advanced Z-folding unit**
4. MX-CFX2 **Inserter**
   Upper tray: 200 sheets
   Lower tray: 200 sheets
5. MX-PNX3A, PNX3C, PNX3D **Punch Unit for finisher MX-FNX5**
   (A: 2 or 3 holes, C: 2 or 4 holes D: 4 hole wide)

Expandability

6. MX-LCX4 **A4 Large Capacity Trays (3 trays)**
   4550 sheets Max. paper weight 205 gsm
7. MX-LCX5 **A3 Large Capacity Trays (3 trays)**
   4000 sheets Max. paper weight 300 gsm
8. MX-MFX2 **Multi bypass tray** 500 sheets
   Max. paper weight 205 gsm (for MX-LCX4/5)

Connectivity

Printing:
MX-PBX2 **Printer expansion kit**
MX-PKX4 **Postscript3 expansion kit**

Faxing:
MX-FWX1 **Internet-FAX expansion Kit**

Scanning:
MX-NSX1 **Network scanner expansion kit**
MX-EBX1 **Colour expansion kit**
AR-SU1 **Stamp Unit**

Sharpdesk™ licenses:
MX-USX1 **Sharpdesk ver3.2 1-License Kit**
MX-USX5 **Sharpdesk ver3.2 5-License Kit**
MX-US10 **Sharpdesk ver3.2 10-License Kit**
MX-US50 **Sharpdesk ver3.2 50-License Kit**
MX-USA0 **Sharpdesk ver3.2 100-License Kit**

Security:
MX-FRX8U **Data Security Kit (Commercial version)**
or
MX-FRX8 **Data Security Kit**

Sharp OSA*:
MX-AMX1 **Application Integration Module**
MX-AMX2 **Application Communication Module***
MX-AMX3 **External Account Module***

* Cannot be installed with MX-FRX8

CONFIGURATION FOR EDUCATION SECTOR

*Available at a later date

Finishing

1. MX-FNX5 **Finisher**
   Paper size: A3W to A5R, Upper tray: 500 sheets
   Lower tray: 3000 sheets
   Stapling position: 4 locations (top, top slant, bottom, 2 staples)
   Stapling capacity: 100-sheets
2. MX-GBX1 **The GBC Stream Punch™***
   MX-GPX1 Punch cartridge, 11 hole die set (Velobind)
   MX-GPX2 Punch cartridge, 19 hole die set (CombBind)
   MX-GPX3 Punch cartridge, 21 hole die set (WireBind twin loop wire 2:1)
   MX-GPX4 Punch cartridge, 32 hole die set (WireBind twin loop wire 3:1)
   MX-GPX5 Punch cartridge, 32 hole die set (Pro Click)
   MX-GPX6 Punch cartridge, 44 hole die set (Colour Coil)
3. MX-FNX8 **Saddle unit**
   Paper size: A3W - B5R
   Stapling position: saddle stitch only
   Saddle stitch capacity: up to 15 sheets (no hole punch)
4. MX-FDX1 **Advanced Z-folding unit**
5. MX-CFX2 **Inserter**
   Upper tray: 200 sheets
   Lower tray: 200 sheets
6. MX-PNX3A, PNX3C, PNX3D **Punch Unit for finisher MX-FNX5**
   (A: 2 or 3 holes, C: 2 or 4 holes, D: 4 hole wide)

Expandability

7. MX-LCX4 **A4 Large Capacity Trays (3 trays)**
   4550 sheets Max. paper weight 205 gsm
8. MX-LCX5 **A3 Large Capacity Trays (3 trays)**
   4000 sheets Max. paper weight 300 gsm
9. MX-MFX2 **Multi bypass tray** 500 sheets
   Max. paper weight 205 gsm (for MX-LCX4/5)

Connectivity

Printing:
MX-PBX2 **Printer expansion kit**
MX-PEX3 **Fiery® Print Controller***1
MX-PXX3 **Fiery print controller interface connection kit**
MX-PKX4 **Postscript3 expansion kit**

Faxing:
MX-FXX1 **Super G3 fax kit**

Scanning:
MX-NSX1 **Network scanner expansion kit**
MX-EBX1 **Colour expansion kit**
AR-SU1 **Stamp Unit**

Sharpdesk™ licenses:
MX-USX1 **Sharpdesk ver3.2 1-License Kit**
MX-USX5 **Sharpdesk ver3.2 5-License Kit**
MX-US10 **Sharpdesk ver3.2 10-License Kit**
MX-US50 **Sharpdesk ver3.2 50-License Kit**
MX-USA0 **Sharpdesk ver3.2 100-License Kit**

Security:
MX-FRX8U **Data Security Kit (commercial version)**
or
MX-FRX8 **Data Security Kit**

Sharp OSA®:
MX-AMX1 **Application Integration Module**
MX-AMX2 **Application Communication Module***2
MX-AMX3 **External Account Module***2

*1 Available at a later date
*2 Cannot be installed with MX-FRX8

CONFIGURATION FOR PAY FOR PRINT SECTOR

*Available at a later date

Finishing

1. **MX-FNX5 Finisher**
   Paper size: A3W to A5R, Upper tray: 500 sheets
   Lower tray: 3000 sheets
   Stapling position: 4 locations (top, top slant, bottom, 2 staples)
   Stapling capacity: 100-sheets
2. **MX-GBX1 The GBC Stream Punch™***
   MX-GPX1 Punch cartridge, 11 hole die set (Velobind)
   MX-GPX2 Punch cartridge, 19 hole die set (CombBind)
   MX-GPX3 Punch cartridge, 21 hole die set (WireBind twin loop wire 2:1)
   MX-GPX4 Punch cartridge, 32 hole die set (WireBind twin loop wire 3:1)
   MX-GPX5 Punch cartridge, 32 hole die set (Pro Click)
   MX-GPX6 Punch cartridge, 44 hole die set (Colour Coil)
3. **MX-FNX8 Saddle unit**
   Paper size: A3W - B5R
   Stapling position: saddle stitch only
   Saddle stitch capacity: up to 15 sheets (no hole punch)
4. **MX-FDX1 Advanced Z-folding unit**
5. **MX-CFX2 Inserter**
   Upper tray: 200 sheets
   Lower tray: 200 sheets
6. **MX-PNX3A, PNX3C, PNX3D Punch Unit for finisher MX-FNX5**
   (A: 2 or 3 holes, C: 2 or 4 holes, D: 4 hole wide)

Expandability

7. **MX-LCX4 A4 Large Capacity Trays (3 trays)**
   4550 sheets Max. paper weight 205 gsm
8. **MX-LCX5 A3 Large Capacity Trays (3 trays)**
   4000 sheets Max. paper weight 300 gsm
9. **MX-MFX2 Multi bypass tray** 500 sheets
   Max. paper weight 205 gsm (for MX-LCX4/5)

Connectivity

Printing:
MX-PBX2 Printer expansion kit
MX-PEX3 Fiery® Print Controller*
MX-PXX3 Fiery print controller interface connection kit
MX-PKX4 Postscript3 expansion kit

Scanning:
MX-NSX1 Network scanner expansion kit
MX-EBX1 Colour expansion kit
AR-SU1 Stamp Unit

Sharpdesk™ licenses:
MX-USX1 Sharpdesk ver3.2 1-License Kit
MX-USX5 Sharpdesk ver3.2 5-License Kit
MX-US10 Sharpdesk ver3.2 10-License Kit
MX-US50 Sharpdesk ver3.2 50-License Kit
MX-USA0 Sharpdesk ver3.2 100-License Kit

Sharp OSA®:
MX-AMX1 Application Integration Module
MX-AMX2 Application Communication Module
MX-AMX3 External Account Module

*available at a later date

CONFIGURATION FOR CRD ENVIRONMENT

*Available at a later date

Finishing

1. MX-FNX5 **Finisher**
   Paper size: A3W to A5R, Upper tray: 500 sheets
   Lower tray: 3000 sheets
   Stapling position: 4 locations (top, top slant, bottom, 2 staples)
   Stapling capacity: 100-sheets
2. MX-GBX1 **The GBC Stream Punch™***
   MX-GPX1 Punch cartridge, 11 hole die set (Velobind)
   MX-GPX2 Punch cartridge, 19 hole die set (CombBind)
   MX-GPX3 Punch cartridge, 21 hole die set (WireBind twin loop wire 2:1)
   MX-GPX4 Punch cartridge, 32 hole die set (WireBind twin loop wire 3:1)
   MX-GPX5 Punch cartridge, 32 hole die set (Pro Click)
   MX-GPX6 Punch cartridge, 44 hole die set (Colour Coil)
3. MX-FNX8 **Saddle unit**
   Paper size: A3W - B5R
   Stapling position: saddle stitch only
   Saddle stitch capacity: up to 15 sheets (no hole punch)
4. MX-FDX1 **Advanced Z-folding unit**
5. MX-CFX2 **Inserter**
   Upper tray: 200 sheets
   Lower tray: 200 sheets
6. MX-PNX3A, PNX3C, PNX3D **Punch Unit for finisher MX-FNX5**
   (A: 2 or 3 holes, C: 2 or 4 holes, D: 4 hole wide)

Expandability

7. MX-LCX4 **A4 Large Capacity Trays (3 trays)**
   4550 sheets Max. paper weight 205 gsm
8. MX-LCX5 **A3 Large Capacity Trays (3 trays)**
   4000 sheets Max. paper weight 300 gsm
9. MX-MFX2 **Multi bypass tray** 500 sheets
   Max. paper weight 205 gsm (for MX-LCX4/5)

Connectivity

Printing:
MX-PBX2 **Printer expansion kit**
MX-PEX3 **Fiery® Print Controller***1
MX-PXX3 **Fiery print controller interface connection kit**
MX-PKX4 **Postscript3 expansion kit**
AR-PF1 **Barcode font kit**

Scanning:
MX-NSX1 **Network scanner expansion kit**
MX-EBX1 **Colour expansion kit**
AR-SU1 **Stamp Unit**

Sharpdesk™ licenses:
MX-USX1 **Sharpdesk ver3.2 1-License Kit**
MX-USX5 **Sharpdesk ver3.2 5-License Kit**
MX-US10 **Sharpdesk ver3.2 10-License Kit**
MX-US50 **Sharpdesk ver3.2 50-License Kit**
MX-USA0 **Sharpdesk ver3.2 100-License Kit**

Security:
MX-FRX8U **Data Security Kit (Commercial version)**
or
MX-FRX8 **Data Security Kit**

Sharp OSA®:
MX-AMX1 **Application Integration Module**
MX-AMX2 **Application Communication Module***2
MX-AMX3 **External Account Module***2

*1 available at a later date
*2 Cannot be installed with MX-FRX8

CONFIGURATION FOR FINANCE SECTOR

*Available at a later date

Finishing

1. MX-FNX5 **Finisher**
   Paper size: A3W to A5R, Upper tray: 500 sheets
   Lower tray: 3000 sheets
   Stapling position: 4 locations (top, top slant, bottom, 2 staples)
   Stapling capacity: 100-sheets
2. MX-GBX1 **The GBC Stream Punch™***
   MX-GPX1 Punch cartridge, 11 hole die set (Velobind)
   MX-GPX2 Punch cartridge, 19 hole die set (CombBind)
   MX-GPX3 Punch cartridge, 21 hole die set (WireBind twin loop wire 2:1)
   MX-GPX4 Punch cartridge, 32 hole die set (WireBind twin loop wire 3:1)
   MX-GPX5 Punch cartridge, 32 hole die set (Pro Click)
   MX-GPX6 Punch cartridge, 44 hole die set (Colour Coil)
3. MX-FNX8 **Saddle unit**
   Paper size: A3W - B5R
   Stapling position: saddle stitch only
   Saddle stitch capacity: up to 15 sheets (no hole punch)
4. MX-FDX1 **Advanced Z-folding unit**
5. MX-CFX2 **Inserter**
   Upper tray: 200 sheets
   Lower tray: 200 sheets
6. MX-PNX3A, PNX3C, PNX3D **Punch Unit for finisher MX-FNX5**
   (A: 2 or 3 holes, C: 2 or 4 holes, D: 4 hole wide)

Expandability

7. MX-LCX4 **A4 Large Capacity Trays (3 trays)**
   4550 sheets Max. paper weight 205 gsm
8. MX-LCX5 **A3 Large Capacity Trays (3 trays)**
   4000 sheets Max. paper weight 300 gsm
9. MX-MFX2 **Multi bypass tray** 500 sheets
   Max. paper weight 205 gsm (for MX-LCX4/5)

Connectivity

Printing:
MX-PBX2 **Printer expansion kit**
MX-PEX3 **Fiery® Print Controller**[*1]
MX-PXX3 **Fiery print controller interface connection kit**
MX-PKX4 **Postscript3 expansion kit**
MX-FWX1 **Internet-FAX expansion Kit**

Faxing:
MX-FXX1 **Super G3 fax kit**

Scanning:
MX-NSX1 **Network scanner expansion kit**
MX-EBX1 **Colour expansion kit**
AR-SU1 **Stamp Unit**

Sharpdesk™ licenses:
MX-USX1 **Sharpdesk ver3.2 1-License Kit**
MX-USX5 **Sharpdesk ver3.2 5-License Kit**
MX-US10 **Sharpdesk ver3.2 10-License Kit**
MX-US50 **Sharpdesk ver3.2 50-License Kit**
MX-USA0 **Sharpdesk ver3.2 100-License Kit**

Security:
MX-FRX8U **Data Security Kit (Commercial version)**
or
MX-FRX8 **Data Security Kit**

Sharp OSA®:
MX-AMX1 **Application Integration Module**
MX-AMX2 **Application Communication Module**[*2]
MX-AMX3 **External Account Module**[*2]

[*1] available at a later date
[*2] Cannot be installed with MX-FRX8

OFFICE CONFIGURATION

Finishing

1. **MX-FNX7 Saddle Stitch Finisher**
   Paper size: A3W - A5R
   Upper tray: 250 sheets
   Middle tray: 2000 sheets
   Saddle stitch tray (lower) 10 sets (11 to 15 sheets), 15 sets (6 to 10 sheets), 30 sets (2 to 5 sheets)
   Stapling position: 4 locations (top, top slant, bottom, 2 staples) and saddle stitch,
   Stapling capacity: 50 sheets,15 sheets for saddle stitch only (no hole punch)
2. **MX-FNX6 Finisher**
   Paper size: A3W to A5R
   Upper tray: 250 sheets
   Lower tray: 3000 sheets
   Stapling position: 4 locations (top, top slant, bottom, 2 staples),
   Stapling capacity: 50 sheets
3. **MX-PNX4A, PNX4C, PNX4 Punch Unit for finisher MX-FNX6, MX-FNX7**
   (A: 2 holes, C: 2 or 4 holes, D: 4 hole wide)

Expandability

4. **MX-MFX1 Multi bypass tray** 100 sheets
   Max. paper weight 300 gsm
5. **MX-LCX3N A3 Large Capacity Tray** 3000 sheets
   Max. paper weight 205 gsm (only for MX-M850)
6. **MX-LCX6 A4 Large Capacity Tray** 3500 sheets
   Max. paper weight 205 gsm

Connectivity

Printing:
MX-PBX2 Printer expansion kit
MX-PKX4 Postscript3 expansion kit
AR-PF1 Barcode font kit

Scanning:
MX-NSX1 Network scanner expansion kit
MX-EBX1 Colour expansion kit

Faxing:
MX-FWX1 Internet-FAX expansion Kit
MX-FXX1 Super G3 fax kit

Sharpdesk™ licenses:
MX-USX1 Sharpdesk ver3.2 1-License Kit
MX-USX5 Sharpdesk ver3.2 5-License Kit
MX-US10 Sharpdesk ver3.2 10-License Kit
MX-US50 Sharpdesk ver3.2 50-License Kit
MX-USA0 Sharpdesk ver3.2 100-License Kit

Security:
MX0FRX8U Data Security Kit (commercial version)
or
MX-FRX8 Data Security Kit

Sharp OSA®:
MX-AMX1 Application Integration Module
MX-AMX2 Application Communication Module*
MX-AMX3 External Account Module*

* Cannot be installed with MX-FRX8

Competitive Comparison

The competitive analysis is designed to promote the features of the MX-M series (MX-M850, MX-M950, and MX-M1100) in terms of their competitive advantages.

Sharp versus competior comparion:

Sharp MX-M850 (office configuration*) vs. Canon iR7086
Sharp MX-M850 (office configuration*) vs. Kyocera KM-8030
Sharp MX-M850 (office configuration*) vs. Toshiba e-Studio 850
Sharp MX-M850 (office configuration*) vs. Xerox WorkCentre Pro 90
Sharp MX-M850 vs. Canon iR 8070
Sharp MX-M850 vs. Oce VarioPrint 2090
Sharp MX-M850 vs. Ricoh Aficio MP 9000
Sharp MX-M950 vs. Canon iR 7095
Sharp MX-M950 vs. Konica Minolta Bizhub Pro 920
Sharp MX-M950 vs. Oce VarioPrint 2100 Titanium
Sharp MX-M950 vs. Ricoh Aficio MP 9000
Sharp MX-M1100 vs. Canon iR 7105
Sharp MX-M1100 vs. Konica Minolta Bizhub Pro 1050
Sharp MX-M1100 vs. Oce VarioPrint 2110 Titanium
Sharp MX-M1100 vs. Ricoh Aficio MP 1100
Sharp MX-M1100 vs. Ricoh Aficio MP 1350
Sharp MX-M1100 vs. Xerox 4110
Sharp MX-M1100 vs. Xerox Nuvera 100 Copier / Printer

Sharp MX-M850 (office configuration*) vs. Canon iR7086

*MX-M850
MX-LCX4, MX-LCX6 or LCX3N
MX-FNX5, FNX6 or FNX7

Manufacturer	SHARP	Canon
Model	MX-M850	IR 7086
Network Printer	Opt	Opt
Copier	Std	Std
Network Scanner	Opt	Std
Fax	Opt	No
I-Fax	Opt	Opt
Engine		
Engine Speed	85ppm	86ppm
Warm-up time	240 seconds	360 seconds
Paper supply (std)	3000	4150
Paper supply (max)	8050	7650
Max Paper weight	300gsm	200gsm
Max paper size	305x457	297x432
Cassettes (std)	4	4
Cassettes (max)	7	5
Copy	**Std**	**Std**
Copy speed	85ppm	86ppm
FCOT	4.0 seconds	3 seconds
Resolution	600x600	600x600
Max. Qty. select	9,999	9,999
Memory (std)	768mb	1GB (shared)
Memory (max)	1536mb	1GB (shared)
Zoom range	25-400%	25-400%
Document Feeder	**Std**	**Std**
Type	DSPF	RADF
Capacity	250 sheets	100 sheets
Scanning	**Opt**	**Std**
Speed	85ipm	65 spm
Colour	Opt	No
Max. Resolution	600dpi	600dpi
Destinations	PC/email/FTP/SMB/USB drive/HDD	PC/email/FTP/SMB/ HDD

Manufacturer	SHARP	Canon
Model	MX-M850	IR 7086
Network Printing	**Opt**	**Opt**
PPM / SPH	85 / 5100	86ppm
Resolution	1200x1200	1200x1200
PDL's	PCL5e, 6 Opt PS3	PCL5e, 6, PS3
Controller 1 Chip	RM7965 (868mHz)	2xcustom 400mHz
Controller 1 Memory	1024mb	1024mb (shared)
Controller 2 Chip	(EFI) Celeron D 2.8gHz*	Celeron D 2.8gHz
Controller 2 Memory	1024mb	256mb
Controller 3 Chip	N/A	N/A
Controller 3 Memory	N/A	N/A
Fax	**Opt**	**No**
Super G3	Yes	N/A
i-Fax	Opt	Opt
Finishing	**Opt**	**Opt**
Max staples	100	100
Max saddle staples	15	20
Z-folder	No	Opt
GBC	No	Opt
Perfect binder	No	Opt
Consumables		
Toner capacity	120,000	47,000
Developer capacity	500,000	N/A
Drum life	1,000,000	6,000,000
Hot swappable toner	Yes	Yes
Security		
HDD delete/overwrite	Opt	Opt
Network Encryption	Yes	Yes
IP/Mac filtering	Yes	Yes
LDAP	Yes	Yes

* Not available at launch time

Advantages of Sharp MX-M850	Advantages of Canon iR7086
• Faster warm-up time • Heavier paper support • Higher max. paper capacity • More paper cassettes (max) • Larger paper size support • Separate copy & print memory • More copy memory available • DSPF • Higher capacity Document Feeder • Faxing available • Higher capacity toner cartridge • Larger control panel • Scan to USB chip	• Slightly faster engine speed (86ppm Vs. 85ppm) • Higher std paper capacity • Faster FCOT • Network scanning as std • No. of sheets saddle stitched is greater • More finishing options

Sharp MX-M850 (office configuration*) vs. Kyocera KM-8030

*MX-M850
MX-LCX4, MX-LCX6 or LCX3N
MX-FNX5, FNX6 or FNX7

Manufacturer	SHARP	Kyocera
Model	MX-M850	KM-8030
Network Printer	Opt	Opt
Copier	Std	Std
Network Scanner	Opt	Opt
Fax	Opt	No
I-Fax	Opt	No
Engine		
Engine Speed	85ppm	80ppm
Warm-up time	240 seconds	30 seconds
Paper supply (std)	3000	4100
Paper supply (max)	8050	8100
Max Paper weight	300gsm	200gsm
Max paper size	305x457	A3
Cassettes (std)	4	4
Cassettes (max)	7	5
Copy	**Std**	**Std**
Copy speed	85ppm	80ppm
FCOT	4.0 seconds	2.9 seconds
Resolution	600x600	600x600
Max. Qty. select	9,999	9,999
Memory (std)	768mb	512mb
Memory (max)	1536mb	512mb
Zoom range	25-400%	25-400%
Document Feeder	**Std**	**Std**
Type	DSPF	RADF
Capacity	250 sheets	100 sheets
Scanning	**Opt**	**Opt**
Speed	85ipm	80 spm
Colour	Opt	No
Max. Resolution	600dpi	600dpi
Destinations	PC/email/FTP/SMB/USB drive/HDD	PC/email/FTP/network TWAIN

Manufacturer	SHARP	Kyocera
Model	MX-M850	KM-8030
Network Printing	**Opt**	**Opt**
PPM / SPH	85 / 5100	80ppm
Resolution	1200x1200	1200dpi
PDL's	PCL5e, 6 Opt PS3	PCL5e, 6, PS3
Controller 1 Chip	RM7965 (868mHz)	PowerPC750FX 600mHz
Controller 1 Memory	1024mb	Up to 576mb
Controller 2 Chip	(EFI) Celeron D 2.8gHz*	N/A
Controller 2 Memory	1024mb	N/A
Controller 3 Chip	N/A	N/A
Controller 3 Memory	N/A	N/A
Fax	**Opt**	**No**
Super G3	Yes	N/A
i-Fax	Opt	N/A
Finishing	**Opt**	**Opt**
Max staples	100	50
Max saddle staples	15	16
Z-folder	No	No
GBC	No	No
Perfect binder	No	No
Consumables		
Toner capacity	120,000	47,000
Developer capacity	500,000	N/A
Drum life	1,000,000	4,800,000
Hot swappable toner	Yes	No
Security		
HDD delete/overwrite	Opt	Opt
Network Encryption	Yes	No
IP/Mac filtering	Yes	Y/N
LDAP	Yes	Yes

* Not available at launch time

Advantages of Sharp MX-M850	Advantages of Kyocera KM-8030
• Faster engine speed • Optional fax & iFax functionality • Heavier paper weight support • More paper cassettes (max) • More memory (both copying & printing) • Standard HDD • DSPF • Higher capacity document feeder • Scan to USB chip drive • Scan to SMB • Faster std print controller • Optional EFI Print controller • Can staple more sheets • Higher capacity toner cartridge • Hot swappable toner • Better security • Larger control panel	• Faster warm-up time • Higher std & max paper capacity • Faster FCOT • More sheets can be saddle stitched (16 Vs 15) • Drum life is longer

Sharp MX-M850 (office configuration*) vs. Toshiba e-Studio 850

*MX-M850
MX-LCX4, MX-LCX6 or LCX3N
MX-FNX5, FNX6 or FNX7

Manufacturer	SHARP	Toshiba
Model	MX-M850	e-Studio 850
Network Printer	Opt	Opt
Copier	Std	Std
Network Scanner	Opt	Opt
Fax	Opt	Opt
I-Fax	Opt	Opt
Engine		
Engine Speed	85ppm	85ppm
Warm-up time	240 seconds	130 seconds
Paper supply (std)	3000	3600
Paper supply (max)	8050	7600
Max Paper weight	300gsm	209gsm
Max paper size	305x457	A3
Cassettes (std)	4	3
Cassettes (max)	7	4
Copy	**Std**	**Std**
Copy speed	85ppm	85ppm
FCOT	4.0 seconds	3.5 seconds
Resolution	600x600	600x600
Max. Qty. select	9,999	9,999
Memory (std)	768mb	320mb
Memory (max)	1536mb	320mb
Zoom range	25-400%	25-400%
Document Feeder	**Std**	**Std**
Type	DSPF	RADF
Capacity	250 sheets	100 sheets
Scanning	**Opt**	**Opt**
Speed	85ipm	83spm
Colour	Opt	No
Max. Resolution	600dpi	600dpi
Destinations	PC/email/FTP/SMB/USB drive/HDD	Email/SMB/FTP /HDD

Manufacturer	SHARP	Toshiba
Model	MX-M850	e-Studio 850
Network Printing	**Opt**	**Opt**
PPM / SPH	85 / 5100	85ppm
Resolution	1200x1200	600x600 (unenhanced)
PDL's	PCL5e, 6 Opt PS3	PCL 6, PS3
Controller 1 Chip	RM7965 (868mHz)	PowerPC750FX 600mHz
Controller 1 Memory	1024mb	Up to 256mb
Controller 2 Chip	(EFI) Celeron D 2.8gHz*	N/A
Controller 2 Memory	1024mb	N/A
Controller 3 Chip	N/A	N/A
Controller 3 Memory	N/A	N/A
Fax	**Opt**	**Opt**
Super G3	Yes	Yes
i-Fax	Opt	Opt
Finishing	**Opt**	**Opt**
Max staples	100	50
Max saddle staples	15	15
Z-folder	No	No
GBC	No	No
Perfect binder	No	No
Consumables		
Toner capacity	120,000	60,100
Developer capacity	500,000	600,000
Drum life	1,000,000	600,000
Hot swappable toner	Yes	Yes
Security		
HDD delete/overwrite	Opt	Opt
Network Encryption	Yes	No
IP/Mac filtering	Yes	Y/N
LDAP	Yes	Yes

* Not available at launch time

Advantages of Sharp MX-M850	Advantages of Toshiba e-Studio 850
• Heavier paper weight support • Larger paper size support • More paper cassettes (std & max) • Higher max paper capacity • More print & copy memory • DSPF • Faster scanning • Optional colour scanning • Scan to USB drive • Higher print resolution (unenhanced) • PCL 5e support • Faster print processor • More sheets can be stapled • Higher capacity toner cartridge • Higher capacity drum • Network encryption & MAC filtering available	• Faster warm-up time • Faster FCOT • Higher std paper capacity • Higher developer capacity

Sharp MX-M850 (office configuration*) vs. Xerox WorkCentre Pro 90

*MX-M850
MX-LCX4, MX-LCX6 or LCX3N
MX-FNX5, FNX6 or FNX7

Manufacturer	SHARP	Xerox
Model	MX-M850	WC Pro 90
Network Printer	Opt	Std
Copier	Std	Std
Network Scanner	Opt	Opt
Fax	Opt	Opt
I-Fax	Opt	Opt
Engine		
Engine Speed	85ppm	90ppm
Warm-up time	240 seconds	180 seconds
Paper supply (std)	3000	7150
Paper supply (max)	8050	7150
Max Paper weight	300gsm	200gsm
Max paper size	305x457	305x457
Cassettes (std)	4	5
Cassettes (max)	7	5
Copy	**Std**	**Std**
Copy speed	85ppm	90ppm
FCOT	4.0 seconds	6.0 seconds
Resolution	600x600	600x600
Max. Qty. select	9,999	9,999
Memory (std)	768mb	64mb
Memory (max)	1536mb	192mb
Zoom range	25-400%	25-400%
Document Feeder	**Std**	**Std**
Type	DSPF	DADF
Capacity	250 sheets	100 sheets
Scanning	**Opt**	**Opt**
Speed	85ipm	65ipm
Colour	Opt	No
Max. Resolution	600dpi	600dpi
Destinations	PC/email/FTP/SMB/USB drive/HDD	Email/Exchange/PC /FTP/SMB

Manufacturer	SHARP	Xerox
Model	MX-M850	WC Pro 90
Network Printing	**Opt**	**Std**
PPM / SPH	85 / 5100	90ppm
Resolution	1200x1200	1800x1800 (PS3)
PDL's	PCL5e, 6 Opt PS3	PCL5e, 6, PS3
Controller 1 Chip	RM7965 (868mHz)	Celeron 433mHz
Controller 1 Memory	1024mb	128 (256max)
Controller 2 Chip	(EFI) Celeron D 2.8gHz*	N/A
Controller 2 Memory	1024mb	N/A
Controller 3 Chip	N/A	N/A
Controller 3 Memory	N/A	N/A
Fax	**Opt**	**Opt**
Super G3	Yes	Yes
i-Fax	Opt	Opt
Finishing	**Opt**	**Opt**
Max staples	100	100
Max saddle staples	15	15
Z-folder	No	Yes
GBC	No	No
Perfect binder	No	No
Consumables		
Toner capacity	120,000	28,000
Developer capacity	500,000	150,000
Drum life	1,000,000	150,000
Hot swappable toner	Yes	No
Security		
HDD delete/overwrite	Opt	Opt
Network Encryption	Yes	No
IP/Mac filtering	Yes	Y/N
LDAP	Yes	Yes

* Not available at launch time

Advantages of Sharp MX-M850	Advantages of Xerox WorkCentre Pro 90
• Larger control panel • Larger max. paper capacity • Heavier paper weight support • More paper cassettes (max) • Faster FCOT • More copy memory (std & max) • DSPF • Higher capacity document feeder • Scan to USB drive • Faster print controller • More printer memory • Optional EFI print controller • Higher capacity toner/drum/developer • Network encryption & MAC address filtering	• Faster engine speed • Faster warm-up time • Higher std paper capacity • Higher print resolution (PS3) • Z-folding option

Sharp MX-M850 vs. Canon iR 8070

Manufacturer	SHARP	Canon
Model	MX-M850	IR 8070
Network Printer	Opt	Opt
Copier	Std	Std
Network Scanner	Opt	Opt
Fax	Opt	No
I-Fax	Opt	Opt
Engine		
Engine Speed	85ppm	80ppm
Warm-up time	240 seconds	360 seconds
Paper supply (std)	3000	4150
Paper supply (max)	8050	7650
Max Paper weight	300gsm	200gsm
Max paper size	320x470	A3
Cassettes (std)	4	4
Cassettes (max)	7	5
Copy	**Std**	**Std**
Copy speed	85ppm	80ppm
FCOT	4.0 seconds	3.1 seconds
Resolution	600x600	1200x600
Max. Qty. select	9,999	9,999
Memory (std)	768mb	512mb
Memory (max)	1536mb	512mb
Zoom range	25-400%	25-400%
Document Feeder	**Std**	**Std**
Type	DSPF	RADF
Capacity	250 sheets	100 sheets
Scanning	**Opt**	**Opt**
Speed	85ipm	55ipm
Colour	Opt	No
Max. Resolution	600dpi	600dpi
Destinations	PC/email/FTP/SMB/USB drive/HDD	PC/email/FTP/ SMB

Manufacturer	SHARP	Canon
Model	MX-M850	IR 8070
Network Printing	**Opt**	**Opt**
PPM / SPH	85 / 5100	80ppm
Resolution	1200x1200	600x600 (unenhanced)
PDL's	PCL5e, 6 Opt PS3	PCL5e, 6, PS3
Controller 1 Chip	RM7965 (868mHz)	(F1) 64bit RISC 333mHz
Controller 1 Memory	1024mb	512mb
Controller 2 Chip	(EFI) Celeron D 2.8gHz*	(M3) Celeron D 2.5gHz
Controller 2 Memory	1024mb	256mbmb
Controller 3 Chip	N/A	N/A
Controller 3 Memory	N/A	N/A
Fax	**Opt**	**No**
Super G3	Yes	N/A
i-Fax	Opt	Opt
Finishing	**Opt**	**Opt**
Max staples	100	100
Max saddle staples	15	15
Z-folder	Yes	Yes
GBC	Yes*	No
Perfect binder	No	No
Consumables		
Toner capacity	120,000	36,600
Developer capacity	500,000	N/A
Drum life	1,000,000	5,000,000
Hot swappable toner	Yes	Yes
Security		
HDD delete/overwrite	Opt	Opt
Network Encryption	Yes	
IP/Mac filtering	Yes	Yes
LDAP	Yes	Yes

* Available after initial launch

Advantages of Sharp MX-M850	Advantages of Canon iR 8070
• Faster engine speed • Faster warm-up time • Greater max. paper supply • Heavier paper weight support • More paper cassettes available • More copy memory (max. & std) • Document Feeder is a DSPF • Higher capacity Document Feeder • Colour scanning option • Scan to USB drive • Higher resolution printing (unenhanced) • More memory on the basic print controller • Optional print controller is faster processor with more memory • Larger control panel • GBC punch (available at a later date) • Higher capacity toner	• Optional booklet trimmer available • Higher std paper capacity • Faster FCOT • Higher copy resolution • Longer drum life

Sharp MX-M850 vs. Oce VarioPrint 2090

Manufacturer	SHARP	Oce
Model	MX-M850	VarioPrint 2090
Network Printer	Opt	Std
Copier	Std	Std
Network Scanner	Opt	Opt
Fax	Opt	No
I-Fax	Opt	No
Engine		
Engine Speed	85ppm	85ppm
Warm-up time	240 seconds	480 seconds
Paper supply (std)	3000	4600 (4 tray)
Paper supply (max)	8050	5100 (3 tray)
Max Paper weight	300gsm	200gsm
Max paper size	320x470	A3
Cassettes (std)	4	3
Cassettes (max)	7	4
Copy	**Std**	**Std**
Copy speed	85ppm	85ppm
FCOT	4.0 seconds	11 seconds
Resolution	600x600	600x600
Max. Qty. select	9,999	9,999
Memory (std)	768mb	512mb
Memory (max)	1536mb	512mb
Zoom range	25-400%	25-400%
Document Feeder	**Std**	**Std**
Type	DSPF	RADF
Capacity	250 sheets	75 sheets
Scanning	**Opt**	**Opt**
Speed	85ipm	56opm
Colour	Opt	No
Max. Resolution	600dpi	600dpi
Destinations	PC/email/FTP/SMB/USB drive/HDD	email

Manufacturer	SHARP	Oce
Model	MX-M850	VarioPrint 2090
Network Printing	**Opt**	**Opt**
PPM / SPH	85 / 5100	85
Resolution	1200x1200	600dpi
PDL's	PCL5e, 6 Opt PS3	PCL5e, PS3
Controller 1 Chip	RM7965 (868mHz)	Celeron 2.2 gHz
Controller 1 Memory	1024mb	512mb
Controller 2 Chip	(EFI) Celeron D 2.8gHz*	N/A
Controller 2 Memory	1024mb	N/A
Controller 3 Chip	N/A	N/A
Controller 3 Memory	N/A	N/A
Fax	**Opt**	**No**
Super G3	Yes	N/A
i-Fax	Opt	No
Finishing	**Opt**	**Opt**
Max staples	100	80
Max saddle staples	15	20
Z-folder	Yes	No
GBC	Yes*	No
Perfect binder	No	No
Consumables		
Toner capacity	120,000	22,400
Developer capacity	500,000	N/A
Drum life	1,000,000	1,500,000
Hot swappable toner	Yes	
Security		
HDD delete/overwrite	Opt	
Network Encryption	Yes	
IP/Mac filtering	Yes	
LDAP	Yes	Yes

* Not available at launch time

Advantages of Sharp MX-M850	Advantages of Oce VarioPrint 2090
• Faster warm-up time • Optional Fax/iFax functionality • Greater max. paper capacity • More paper cassettes available • Faster FCOT • More copy memory (std & max) • Document feeder is DSPF • Higher capacity document feeder • Faster scanning • Optional colour scanning • More scan destinations • Higher print resolution • PCL 6 support • More powerful Sharp print controller • Optional EFI print controller • More sheets can be stapled • Z-fold & GBC punch (available at a later date) • Higher capacity toner cartridge • Larger, adjustable control panel	• Network printing as std • Greater std paper supply (both 3-tray & 4-tray configurations) • More sheets can be saddle stitched • Longer drum life

Sharp MX-M850 vs. Ricoh Aficio MP 9000

Manufacturer	SHARP	Ricoh
Model	MX-M850	Aficio MP 9000
Network Printer	Opt	Opt
Copier	Std	Std
Network Scanner	Opt	Opt
Fax	Opt	No
I-Fax	Opt	No
Engine		
Engine Speed	85ppm	90ppm
Warm-up time	240 seconds	360 seconds
Paper supply (std)	3000	3000
Paper supply (max)	8050	8500
Max Paper weight	300gsm	216gsm
Max paper size	320x470	330x458
Cassettes (std)	4	4
Cassettes (max)	7	5
Copy	**Std**	**Std**
Copy speed	85ppm	90ppm
FCOT	4.0 seconds	3.5 seconds
Resolution	600x600	600x600
Max. Qty. select	9,999	9,999
Memory (std)	768mb	256mb
Memory (max)	1536mb	512mb
Zoom range	25-400%	25-400%
Document Feeder	**Std**	**Std**
Type	DSPF	RADF
Capacity	250 sheets	100 sheets
Scanning	**Opt**	**Opt**
Speed	85ipm	80opm
Colour	Opt	Std with scanner
Max. Resolution	600dpi	600dpi
Destinations	PC/email/FTP/SMB/USB drive/HDD	Email/NetTWAIN/SMB/FTP/NCP

Manufacturer	SHARP	Ricoh
Model	MX-M850	Aficio MP 9000
Network Printing	**Opt**	**Opt**
PPM / SPH	85 / 5100	90ppm
Resolution	1200x1200	1200dpi (PS3)
PDL's	PCL5e, 6 Opt PS3	PCL5e, 6, PS3
Controller 1 Chip	RM7965 (868mHz)	Celeron 866mHz
Controller 1 Memory	1024mb	512 max
Controller 2 Chip	(EFI) Celeron D 2.8gHz*	(EFI) Celeron 2.8gHz
Controller 2 Memory	1024mb	512mb
Controller 3 Chip	N/A	N/A
Controller 3 Memory	N/A	N/A
Fax	**Opt**	**No**
Super G3	Yes	N/A
i-Fax	Opt	N/A
Finishing	**Opt**	**Opt**
Max staples	100	100
Max saddle staples	15	15
Z-folder	Yes	Yes
GBC	Yes*	Yes
Perfect binder	No	No
Consumables		
Toner capacity	120,000	60,000
Developer capacity	500,000	500,000
Drum life	1,000,000	2,000,000
Hot swappable toner	Yes	Yes
Security		
HDD delete/overwrite	Opt	Opt
Network Encryption	Yes	Yes
IP/Mac filtering	Yes	Y/N
LDAP	Yes	Yes

* Not available at launch time

Advantages of Sharp MX-M850	Advantages of Ricoh Aficio MP 9000
• Optional Fax / iFax functionality • Greater std paper capacity • Heavier paper weight support • More copier memory (std & max) • Separate printing & scanning memory • Document Feeder is a DSPF • Higher capacity Document Feeder • More printer memory (Sharp controller) • More printer memory (Optional EFI print controller) • Greater toner capacity • MAC filtering	• Faster engine speed • Faster FCOT • Larger paper size support • Greater max. paper capacity • Colour scanning std (as part of optional scanner pack) • Longer drum life

Sharp MX-M950 vs. Canon iR 7095

Manufacturer	SHARP	Canon
Model	MX-M950	IR 7095
Network Printer	Opt	Std
Copier	Std	Std
Network Scanner	Opt	Std
Fax	Opt	No
I-Fax	Opt	Opt
Engine		
Engine Speed	95ppm	95ppm
Warm-up time	240 seconds	360 seconds
Paper supply (std)	3000	4150
Paper supply (max)	8050	7650
Max Paper weight	300gsm	200gsm
Max paper size	320x470	297x432
Cassettes (std)	4	4
Cassettes (max)	7	5
Copy	**Std**	**Std**
Copy speed	95ppm	95ppm
FCOT	3.2 seconds	2.8 seconds
Resolution	600x600	600x600
Max. Qty. select	9,999	9,999
Memory (std)	768mb	1024mb (shared)
Memory (max)	1536mb	1024mb (shared)
Zoom range	25-400%	25-400%
Document Feeder	**Std**	**Std**
Type	DSPF	RADF
Capacity	250 sheets	100 sheets
Scanning	**Opt**	**Std**
Speed	120ipm	85opm
Colour	Opt	No
Max. Resolution	600dpi	600dpi
Destinations	PC/email/FTP/SMB/USB drive/HDD	Email/FTP/SMB/ HDD

Manufacturer	SHARP	Canon
Model	MX-M950	IR 7095
Network Printing	**Opt**	**Std**
PPM / SPH	95 / 5700	95ppm
Resolution	1200x1200	1200x1200
PDL's	PCL5e, 6 Opt PS3	PCL5e, 6, PS3
Controller 1 Chip	RM7965 (868mHz)	2xCuston 400/533mHz
Controller 1 Memory	1024mb	1024mb
Controller 2 Chip	(EFI) Celeron D 2.8gHz*	Celeron D 2.8gHz
Controller 2 Memory	1024mb	256mb
Controller 3 Chip	N/A	N/A
Controller 3 Memory	N/A	N/A
Fax	**Opt**	**No**
Super G3	Yes	N/A
i-Fax	Opt	Opt
Finishing	**Opt**	**Opt**
Max staples	100	100
Max saddle staples	15	20
Z-folder	Yes	Yes
GBC	Yes*	Yes
Perfect binder	No	Yes
Consumables		
Toner capacity	120,000	47,000
Developer capacity	500,000	N/A
Drum life	1,000,000	6,000,000
Hot swappable toner	Yes	Yes
Security		
HDD delete/overwrite	Opt	Opt
Network Encryption	Yes	Yes
IP/Mac filtering	Yes	Yes
LDAP	Yes	Yes

* Not available at launch time

Advantages of Sharp MX-M950	Advantages of Canon iR 7095
• Fax option • Faster warm-up time • Higher max. paper capacity • Larger paper size support • Heavier paper support • More paper cassettes available • Separate printing & copying memory • More print/copy memory available • Document Feeder is a DSPF • Greater Document Feeder paper capacity • Faster scanning • Scan to USB drive • Optional EFI print controller has more memory (same processor) • Greater toner cartridge capacity	• More functionality as std (printing & scanning) • Greater std paper capacity • Faster FCOT • More sheets can be saddle stitched • Perfect binder available • Longer drum life

Sharp MX-M950 vs. Konica Minolta Bizhub Pro 920

Manufacturer	SHARP	Konica Minolta
Model	MX-M950	Bizhub Pro 920
Network Printer	Opt	Opt
Copier	Std	Std
Network Scanner	Opt	Std
Fax	Opt	No
I-Fax	Opt	No
Engine		
Engine Speed	95ppm	92ppm
Warm-up time	240 seconds	330 seconds
Paper supply (std)	3000	2150
Paper supply (max)	8050	7150
Max Paper weight	300gsm	200gsm
Max paper size	320x470	314x460
Cassettes (std)	4	3
Cassettes (max)	7	4
Copy	**Std**	**Std**
Copy speed	95ppm	92ppm
FCOT	3.2 seconds	3.1 seconds
Resolution	600x600	600x600
Max. Qty. select	9,999	9,999
Memory (std)	768mb	256mb
Memory (max)	1536mb	512mb
Zoom range	25-400%	25-400%
Document Feeder	**Std**	**Std**
Type	DSPF	RADF
Capacity	250 sheets	100 sheets
Scanning	**Opt**	**Std**
Speed	120ipm	92opm
Colour	Opt	No
Max. Resolution	600dpi	600dpi
Destinations	PC/email/FTP/SMB/USB drive/HDD	TWAIN/HDD/FTP/SMB/email

Manufacturer	SHARP	Konica Minolta
Model	MX-M950	Bizhub Pro 920
Network Printing	**Opt**	**Opt**
PPM / SPH	95 / 5700	92/5250
Resolution	1200x1200	600x600 (unenhanced)
PDL's	PCL5e, 6 Opt PS3	PCL5e, 6, Opt PS3
Controller 1 Chip	RM7965 (868mHz)	P III (800mHz)
Controller 1 Memory	1024mb	256 (512 max)
Controller 2 Chip	(EFI) Celeron D 2.8gHz*	(EFI) P4 3.4gHz
Controller 2 Memory	1024mb	1024mb
Controller 3 Chip	N/A	Dual Xeon 3.2gHz
Controller 3 Memory	N/A	2048mb
Fax	**Opt**	**No**
Super G3	Yes	N/A
i-Fax	Opt	No
Finishing	**Opt**	**Opt**
Max staples	100	100
Max saddle staples	15	20
Z-folder	Yes	Yes
GBC	Yes*	No
Perfect binder	No	No
Consumables		
Toner capacity	120,000	66,000
Developer capacity	500,000	1,000,000
Drum life	1,000,000	1,000,000
Hot swappable toner	Yes	
Security		
HDD delete/overwrite	Opt	Opt
Network Encryption	Yes	Yes
IP/Mac filtering	Yes	Y/N
LDAP	Yes	Yes

* Not available at launch time

Advantages of Sharp MX-M950	Advantages of Konica Minolta Bizhub Pro 920
• Faster engine speed • Larger, adjustable control panel • Optional Fax/iFax • Faster warm-up time • Greater std & max paper capacity • Heavier paper support • Larger paper size support • More paper cassettes available • More copier memory • Document Feeder is a DSPF • Higher capacity document feeder • Faster scanning • Scan to USB drive • GBC punch (available at a later date) • Higher capacity toner cartridge • MAC address filtering	• Booklet trimmer available • Network scanning as std • Faster FCOT • More powerful optional print controller • More sheets can be saddle stitched • Higher capacity developer

Sharp MX-M950 vs. Oce VarioPrint 2100 Titanium

Manufacturer	SHARP	Oce
Model	MX-M950	VarioPrint 2100
Network Printer	Opt	Std
Copier	Std	Std
Network Scanner	Opt	Opt
Fax	Opt	No
I-Fax	Opt	No
Engine		
Engine Speed	95ppm	91ppm
Warm-up time	240 seconds	660 seconds
Paper supply (std)	3000	4600
Paper supply (max)	8050	10,200
Max Paper weight	300gsm	250gsm
Max paper size	320x470	305x457
Cassettes (std)	4	3
Cassettes (max)	7	6
Copy	**Std**	**Std**
Copy speed	95ppm	91ppm
FCOT	3.2 seconds	11 seconds
Resolution	600x600	600x600
Max. Qty. select	9,999	9,999
Memory (std)	768mb	512mb
Memory (max)	1536mb	512mb
Zoom range	25-400%	25-400%
Document Feeder	**Std**	**Std**
Type	DSPF	RADF
Capacity	250 sheets	75 sheets
Scanning	**Opt**	**Opt**
Speed	120ipm	56opm
Colour	Opt	No
Max. Resolution	600dpi	600dpi
Destinations	PC/email/FTP/SMB/USB drive/HDD	SMB/email

Manufacturer	SHARP	Oce
Model	MX-M950	VarioPrint 2100
Network Printing	**Opt**	**Std**
PPM / SPH	95 / 5700	91ppm
Resolution	1200x1200	600dpi
PDL's	PCL5e, 6 Opt PS3	PCL5e, 6, PS3
Controller 1 Chip	RM7965 (868mHz)	Pentium M 3gHz
Controller 1 Memory	1024mb	512mb
Controller 2 Chip	(EFI) Celeron D 2.8gHz*	N/A
Controller 2 Memory	1024mb	N/A
Controller 3 Chip	N/A	N/A
Controller 3 Memory	N/A	N/A
Fax	**Opt**	**No**
Super G3	Yes	N/A
i-Fax	Opt	No
Finishing	**Opt**	**Opt**
Max staples	100	120
Max saddle staples	15	20
Z-folder	Yes	Yes
GBC	Yes*	Yes
Perfect binder	No	Yes
Consumables		
Toner capacity	120,000	22,400
Developer capacity	500,000	N/A
Drum life	1,000,000	1,500,000
Hot swappable toner	Yes	
Security		
HDD delete/overwrite	Opt	
Network Encryption	Yes	
IP/Mac filtering	Yes	
LDAP	Yes	Yes

* Not available at launch time

Advantages of Sharp MX-M950	Advantages of Oce VarioPrint 2100 Titanium
• Faster engine speed • Optional fax/iFax • Faster warm-up time • Heavier paper support • Larger paper size support • More paper cassettes (std & max) • More copy memory (std & max) • Document feeder is a DSPF • Higher capacity document feeder • Optional colour scanning • Faster scanning • More scan destinations • Higher print resolution • More memory in print controller • Optional EFI print controller • Higher capacity toner cartridge	• Upgradeable to 106ppm • Network printer as std • Larger paper capacity (std & max) • More sheets can be stapled • More sheets can be saddle stitched • Perfect binder option • Longer life drum

Sharp MX-M950 vs. Ricoh Aficio MP 9000

Manufacturer	SHARP	Ricoh
Model	MX-M950	Aficio MP 9000
Network Printer	Opt	Opt
Copier	Std	Std
Network Scanner	Opt	Opt
Fax	Opt	No
I-Fax	Opt	No
Engine		
Engine Speed	95ppm	90ppm
Warm-up time	240 seconds	360 seconds
Paper supply (std)	3000	3000
Paper supply (max)	8050	8500
Max Paper weight	300gsm	216gsm
Max paper size	320x470	330x458
Cassettes (std)	4	4
Cassettes (max)	7	5
Copy	**Std**	**Std**
Copy speed	95ppm	90ppm
FCOT	3.2 seconds	3.5 seconds
Resolution	600x600	600x600
Max. Qty. select	9,999	9,999
Memory (std)	768mb	256mb
Memory (max)	1536mb	512mb
Zoom range	25-400%	25-400%
Document Feeder	**Std**	**Std**
Type	DSPF	RADF
Capacity	250 sheets	100 sheets
Scanning	**Opt**	**Opt**
Speed	120ipm	80opm
Colour	Opt	Std with scanner
Max. Resolution	600dpi	600dpi
Destinations	PC/email/FTP/SMB/USB drive/HDD	Email/NetTWAIN/SMB/FTP/NCP

Manufacturer	SHARP	Ricoh
Model	MX-M950	Aficio MP 9000
Network Printing	**Opt**	**Opt**
PPM / SPH	95 / 5700	90ppm
Resolution	1200x1200	1200dpi (PS3)
PDL's	PCL5e, 6 Opt PS3	PCL5e, 6, PS3
Controller 1 Chip	RM7965 (868mHz)	Celeron 866mHz
Controller 1 Memory	1024mb	512 max
Controller 2 Chip	(EFI) Celeron D 2.8gHz*	(EFI) Celeron 2.8gHz
Controller 2 Memory	1024mb	512mb
Controller 3 Chip	N/A	N/A
Controller 3 Memory	N/A	N/A
Fax	**Opt**	**No**
Super G3	Yes	N/A
i-Fax	Opt	N/A
Finishing	**Opt**	**Opt**
Max staples	100	100
Max saddle staples	15	15
Z-folder	Yes	Yes
GBC	Yes*	Yes
Perfect binder	No	No
Consumables		
Toner capacity	120,000	60,000
Developer capacity	500,000	500,000
Drum life	1,000,000	2,000,000
Hot swappable toner	Yes	Yes
Security		
HDD delete/overwrite	Opt	Opt
Network Encryption	Yes	Yes
IP/Mac filtering	Yes	Y/N
LDAP	Yes	Yes

* Not available at launch time

Advantages of Sharp MX-M950	Advantages of Ricoh Aficio MP 9000
• Faster engine speed • Faster warm-up time • Faster FCOT • Optional Fax / iFax functionality • Greater std paper capacity • Heavier paper weight support • More copier memory (std & max) • Separate printing & scanning memory • Document Feeder is a DSPF • Higher capacity Document Feeder • Faster scanning • More printer memory (Sharp controller) • More printer memory (Optional EFI print controller) • Greater toner capacity • MAC filtering	• Greater max. paper capacity • Larger paper size support • Colour scanning std (as part of optional scanner pack) • Longer drum life

Sharp MX-M1100 vs. Canon iR 7105

Manufacturer	SHARP	Canon
Model	MX-M1100	IR 7105
Network Printer	Opt	Opt
Copier	Std	Std
Network Scanner	Opt	Std
Fax	Opt	No
I-Fax	Opt	No
Engine		
Engine Speed	110ppm	105ppm
Warm-up time	240 seconds	360 seconds
Paper supply (std)	3000	4150
Paper supply (max)	8050	7650
Max Paper weight	300gsm	200gsm
Max paper size	320x470	297x432
Cassettes (std)	4	4
Cassettes (max)	7	5
Copy	**Std**	**Std**
Copy speed	110ppm	105ppm
FCOT	3.2 seconds	2.8 seconds
Resolution	600x600	1200x600
Max. Qty. select	9,999	9,999
Memory (std)	768mb	1024mb (shared)
Memory (max)	1536mb	1024mb (shared)
Zoom range	25-400%	25-400%
Document Feeder	**Std**	**Std**
Type	DSPF	RADF
Capacity	250 sheets	100 sheets
Scanning	**Opt**	**Std**
Speed	120ipm	85opm
Colour	Opt	No
Max. Resolution	600dpi	600dpi
Destinations	PC/email/FTP/SMB/USB drive/HDD	Email/FTP/SMB/ HDD

Manufacturer	SHARP	Canon
Model	MX-M1100	IR 7105
Network Printing	**Opt**	**Opt**
PPM / SPH	110 / 6600	105 / 6300
Resolution	1200x1200	1200x1200
PDL's	PCL5e, 6 Opt PS3	5e, 6, PS3
Controller 1 Chip	RM7965 (868mHz)	H1-2xcustom-400/533mHz
Controller 1 Memory	1024mb	1024mb (shared)
Controller 2 Chip	(EFI) Celeron D 2.8gHz*	S1-Celeron D 2.8gHz
Controller 2 Memory	1024mb	256mb
Controller 3 Chip	N/A	N/A
Controller 3 Memory	N/A	N/A
Fax	**Opt**	**No**
Super G3	Yes	N/A
i-Fax	Opt	No
Finishing	**Opt**	**Opt**
Max staples	100	100
Max saddle staples	15	20
Z-folder	Yes	Yes
GBC	Yes*	Yes
Perfect binder	No	Yes
Consumables		
Toner capacity	120,000	47,000
Developer capacity	500,000	N/A
Drum life	1,000,000	6,000,000
Hot swappable toner	Yes	Yes
Security		
HDD delete/overwrite	Opt	Opt
Network Encryption	Yes	Yes
IP/Mac filtering	Yes	Yes
LDAP	Yes	Yes

* Not available at launch time

Advantages of Sharp MX-M1100	Advantages of Canon IR 7105
• Faster engine speed • Faster warm-up time • Fax/iFax option • Greater max. paper capacity • Larger paper size support • Heavier paper support • More paper cassettes available • Separate print & copy memory • More printer memory available • Document Feeder is a DSPF • Higher capacity Document Feeder • Optional colour scanning • Faster scanning • Scan to USB drive • Optional EFI print controller has more memory (same processor) • Higher capacity toner cartridge	• Network scanning as std • Larger std paper capacity • Faster FCOT • Higher copy resolution • More sheets can be saddle stitched • Perfect binder option • Booklet trimmer option • Longer life drum

Sharp MX-M1100 vs. Konica Minolta Bizhub Pro 1050

Manufacturer	SHARP	Konica Minolta
Model	MX-M1100	Bizhub Pro 1050
Network Printer	Opt	Std
Copier	Std	Std
Network Scanner	Opt	Std
Fax	Opt	No
I-Fax	Opt	No
Engine		
Engine Speed	110ppm	105ppm
Warm-up time	240 seconds	360 seconds
Paper supply (std)	3000	4000
Paper supply (max)	8050	9000
Max Paper weight	300gsm	300gsm
Max paper size	320x470	324x460
Cassettes (std)	4	2
Cassettes (max)	7	5
Copy	**Std**	**Std**
Copy speed	110ppm	105ppm
FCOT	3.2 seconds	3 seconds
Resolution	600x600	600x600
Max. Qty. select	9,999	9,999
Memory (std)	768mb	256mb
Memory (max)	1536mb	512mb
Zoom range	25-400%	25-400%
Document Feeder	**Std**	**Std**
Type	DSPF	RADF
Capacity	250 sheets	100 sheets
Scanning	**Opt**	**Std**
Speed	120ipm	105opm
Colour	Opt	No
Max. Resolution	600dpi	600dpi
Destinations	PC/email/FTP/SMB/USB drive/HDD	TWAIN/email/FTP/URL/SMB

Manufacturer	SHARP	Konica Minolta
Model	MX-M1100	Bizhub Pro 1050
Network Printing	**Opt**	**Std**
PPM / SPH	110 / 6600	105 / 6300
Resolution	1200x1200	600x600 (unenhanced)
PDL's	PCL5e, 6 Opt PS3	PCL5e, 6 Opt PS3
Controller 1 Chip	RM7965 (868mHz)	Pentium III 933mHz
Controller 1 Memory	1024mb	256 (512mb max)
Controller 2 Chip	(EFI) Celeron D 2.8gHz*	(EFI) P4 3.4gHz
Controller 2 Memory	1024mb	1024mb
Controller 3 Chip	N/A	(EFI) Dual Xeon 3.2gHz
Controller 3 Memory	N/A	2048mb
Fax	**Opt**	**No**
Super G3	Yes	N/A
i-Fax	Opt	No
Finishing	**Opt**	**Opt**
Max staples	100	100
Max saddle staples	15	50
Z-folder	Yes	Yes
GBC	*	Yes
Perfect binder	No	No
Consumables		
Toner capacity	120,000	88,000
Developer capacity	500,000	1,000,000
Drum life	1,000,000	1,000,000
Hot swappable toner	Yes	Yes
Security		
HDD delete/overwrite	Opt	Std
Network Encryption	Yes	Yes
IP/Mac filtering	Yes	Y/N
LDAP	Yes	Yes

* Not available at launch time

Advantages of Sharp MX-M1100	Advantages of Konica Minolta Bizhub Pro 1050
• Faster engine speed • Faster warm-up time • More paper cassettes (std and max) • More copier memory (std and max) • Document Feeder is a DSPF • Fax/iFax functionality • Faster scanning • Higher capacity Document Feeder • Optional colour scanning • Scan to USB drive • Higher capacity toner cartridge • MAC address filtering	• Std printing & scanning • Higher paper capacity (std and max) • Faster FCOT • Dual Xeon option print controller • 50 sheets can be saddle stitched • Higher capacity developer •

Sharp MX-M1100 vs. Oce VarioPrint 2110 Titanium

Manufacturer	SHARP	Oce
Model	MX-M1100	VarioPrint 2110
Network Printer	Opt	Std
Copier	Std	Std
Network Scanner	Opt	Opt
Fax	Opt	No
I-Fax	Opt	No
Engine		
Engine Speed	110ppm	106ppm
Warm-up time	240 seconds	660 seconds
Paper supply (std)	3000	4600
Paper supply (max)	8050	10,200
Max Paper weight	300gsm	250gsm
Max paper size	320x470	305x457
Cassettes (std)	4	3
Cassettes (max)	7	6
Copy	**Std**	**Std**
Copy speed	110ppm	106ppm
FCOT	3.2 seconds	11 seconds
Resolution	600x600	600x600
Max. Qty. select	9,999	9,999
Memory (std)	768mb	512mb
Memory (max)	1536mb	512mb
Zoom range	25-400%	25-400%
Document Feeder	**Std**	**Std**
Type	DSPF	RADF
Capacity	250 sheets	75 sheets
Scanning	**Opt**	**Opt**
Speed	120ipm	56opm
Colour	Opt	No
Max. Resolution	600dpi	600dpi
Destinations	PC/email/FTP/SMB/USB drive/HDD	SMB/email

Manufacturer	SHARP	Oce
Model	MX-M1100	VarioPrint 2110
Network Printing	**Opt**	**Std**
PPM / SPH	110 / 6600	106 / 6350
Resolution	1200x1200	600dpi
PDL's	PCL5e, 6 Opt PS3	PCL5e, 6, PS3
Controller 1 Chip	RM7965 (868mHz)	Pentium M 3gHz
Controller 1 Memory	1024mb	512mb
Controller 2 Chip	(EFI) Celeron D 2.8gHz*	N/A
Controller 2 Memory	1024mb	N/A
Controller 3 Chip	N/A	N/A
Controller 3 Memory	N/A	N/A
Fax	**Opt**	**No**
Super G3	Yes	N/A
i-Fax	Opt	No
Finishing	**Opt**	**Opt**
Max staples	100	120
Max saddle staples	15	20
Z-folder	Yes	Yes
GBC	Yes*	Yes
Perfect binder	No	Yes
Consumables		
Toner capacity	120,000	22,400
Developer capacity	500,000	N/A
Drum life	1,000,000	1,500,000
Hot swappable toner	Yes	
Security		
HDD delete/overwrite	Opt	
Network Encryption	Yes	
IP/Mac filtering	Yes	
LDAP	Yes	Yes

* Not available at launch time

Advantages of Sharp MX-M1100	Advantages of Oce VarioPrint 2110 Titanium
• Faster engine speed • Optional fax/iFax • Faster warm-up time • Faster FCOT • Heavier paper support • Larger paper size support • More paper cassettes (std & max) • More copy memory (std & max) • Document feeder is a DSPF • Higher capacity document feeder • Optional colour scanning • Faster scanning • More scan destinations • Higher print resolution • More memory in print controller • Optional EFI print controller • Higher capacity toner cartridge	• Network printer as std • Larger paper capacity (std & max) • More sheets can be stapled • More sheets can be saddle stitched • Perfect binder option • Longer life drum

Sharp MX-M1100 vs. Ricoh Aficio MP 1100

Manufacturer	SHARP	Ricoh
Model	MX-M1100	Aficio MP 1100
Network Printer	Opt	Opt
Copier	Std	Std
Network Scanner	Opt	Opt
Fax	Opt	No
I-Fax	Opt	No
Engine		
Engine Speed	110ppm	110ppm
Warm-up time	240 seconds	360 seconds
Paper supply (std)	3000	3000
Paper supply (max)	8050	8050
Max Paper weight	300gsm	216gsm
Max paper size	320x470	330x458
Cassettes (std)	4	4
Cassettes (max)	7	7
Copy	**Std**	**Std**
Copy speed	110ppm	110ppm
FCOT	3.2 seconds	3.2 seconds
Resolution	600x600	600x600
Max. Qty. select	9,999	9,999
Memory (std)	768mb	256mb
Memory (max)	1536mb	512mb
Zoom range	25-400%	25-400%
Document Feeder	**Std**	**Std**
Type	DSPF	RADF
Capacity	250 sheets	100 sheets
Scanning	**Opt**	**Opt**
Speed	120ipm	80opm
Colour	Opt	Yes
Max. Resolution	600dpi	1200dpi
Destinations	PC/email/FTP/SMB/USB drive/HDD	Net TWAIN/email/ SMB/FTP/NCP

Manufacturer	SHARP	Ricoh
Model	MX-M1100	Aficio MP 1100
Network Printing	**Opt**	**Opt**
PPM / SPH	110 / 6600	110 / 6600
Resolution	1200x1200	1200x1200
PDL's	PCL5e, 6 Opt PS3	PCL5e, 6 PS3
Controller 1 Chip	RM7965 (868mHz)	Celeron 866mHz
Controller 1 Memory	1024mb	512mb
Controller 2 Chip	(EFI) Celeron D 2.8gHz*	(EFI) Celeron 2.8gHz
Controller 2 Memory	1024mb	512mb
Controller 3 Chip	N/A	N/A
Controller 3 Memory	N/A	N/A
Fax	**Opt**	**No**
Super G3	Yes	N/A
i-Fax	Opt	No
Finishing	**Opt**	**Opt**
Max staples	100	100
Max saddle staples	15	15
Z-folder	Yes	Yes
GBC	Yes*	Yes
Perfect binder	No	No
Consumables		
Toner capacity	120,000	60,000
Developer capacity	500,000	500,000
Drum life	1,000,000	2,000,000
Hot swappable toner	Yes	Yes
Security		
HDD delete/overwrite	Opt	Opt
Network Encryption	Yes	Yes
IP/Mac filtering	Yes	Y/N
LDAP	Yes	Yes

* Not available at launch time

Advantages of Sharp MX-M1100	Advantages of Ricoh Aficio MP 1100
• Larger std paper capacity • Optional fax & iFax • Faster warm-up time • Heavier paper weight support • More copier memory • Separate print & copy memory • Document feeder is a DSPF • Higher capacity document feeder • Faster scanning • Scan to USB drive • More memory in both printer controllers • Higher capacity toner cartridges • MAC filtering	• Colour scanning is std with the scanning option – no additional options needed • Longer-life drum • Larger paper size support

Sharp MX-M1100 vs. Ricoh Aficio MP 1350

Manufacturer	SHARP	Ricoh
Model	MX-M1100	Aficio MP 1350
Network Printer	Opt	Opt
Copier	Std	Std
Network Scanner	Opt	Opt
Fax	Opt	No
I-Fax	Opt	No
Engine		
Engine Speed	110ppm	135ppm
Warm-up time	240 seconds	360 seconds
Paper supply (std)	3000	3000
Paper supply (max)	8050	8050
Max Paper weight	300gsm	216gsm
Max paper size	320x470	330x458
Cassettes (std)	4	4
Cassettes (max)	7	7
Copy	**Std**	**Std**
Copy speed	110ppm	135ppm
FCOT	3.2 seconds	3.0 seconds
Resolution	600x600	600x600
Max. Qty. select	9,999	9,999
Memory (std)	768mb	256mb
Memory (max)	1536mb	512mb
Zoom range	25-400%	25-400%
Document Feeder	**Std**	**Std**
Type	DSPF	RADF
Capacity	250 sheets	100 sheets
Scanning	**Opt**	**Opt**
Speed	120ipm	80opm
Colour	Opt	Yes
Max. Resolution	600dpi	1200dpi
Destinations	PC/email/FTP/SMB/USB drive/HDD	Net TWAIN/email/ SMB/FTP/NCP

Manufacturer	SHARP	Ricoh
Model	MX-M1100	Aficio MP 1350
Network Printing	**Opt**	**Opt**
PPM / SPH	110 / 6600	110 / 8100
Resolution	1200x1200	1200x1200
PDL's	PCL5e, 6 Opt PS3	PCL5e, 6 PS3
Controller 1 Chip	RM7965 (868mHz)	Celeron 866mHz
Controller 1 Memory	1024mb	512mb
Controller 2 Chip	(EFI) Celeron D 2.8gHz*	(EFI) Celeron 2.8gHz
Controller 2 Memory	1024mb	512mb
Controller 3 Chip	N/A	N/A
Controller 3 Memory	N/A	N/A
Fax	**Opt**	**No**
Super G3	Yes	N/A
i-Fax	Opt	No
Finishing	**Opt**	**Opt**
Max staples	100	100
Max saddle staples	15	15
Z-folder	Yes	Yes
GBC	Yes*	Yes
Perfect binder	No	No
Consumables		
Toner capacity	120,000	60,000
Developer capacity	500,000	500,000
Drum life	1,000,000	2,000,000
Hot swappable toner	Yes	Yes
Security		
HDD delete/overwrite	Opt	Opt
Network Encryption	Yes	Yes
IP/Mac filtering	Yes	Y/N
LDAP	Yes	Yes

* Not available at launch time

Advantages of Sharp MX-M1100	Advantages of Ricoh Aficio MP 1350
• Larger std paper capacity • Optional fax & iFax • Faster warm-up time • Heavier paper weight support • More copier memory • Separate print & copy memory • Document feeder is a DSPF • Higher capacity document feeder • Faster scanning • Scan to USB drive • More memory in both printer controllers • Higher capacity toner cartridges • MAC filtering	• Faster engine speed • Faster FCOT • Colour scanning is std with the scanning option – no additional options needed • Longer-life drum • Larger paper size support

Sharp MX-M1100 vs. Xerox 4110

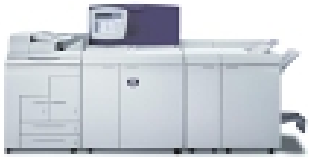
Manufacturer	SHARP	Xerox
Model	MX-M1100	4110
Network Printer	Opt	Std
Copier	Std	Std
Network Scanner	Opt	Std
Fax	Opt	No
I-Fax	Opt	No
Engine		
Engine Speed	110ppm	110ppm
Warm-up time	240 seconds	45 seconds
Paper supply (std)	3000	4050
Paper supply (max)	8050	8050
Max Paper weight	300gsm	256gsm
Max paper size	320x470	330x488
Cassettes (std)	4	4
Cassettes (max)	7	6
Copy	**Std**	**Std**
Copy speed	110ppm	110ppm
FCOT	3.2 seconds	3.0 seconds
Resolution	600x600	600x600
Max. Qty. select	9,999	9,999
Memory (std)	768mb	512mb
Memory (max)	1536mb	512mb
Zoom range	25-400%	25-400%
Document Feeder	**Std**	**Std**
Type	DSPF	DSPF
Capacity	250 sheets	250
Scanning	**Opt**	**Std**
Speed	120ipm	100ipm
Colour	Opt	No
Max. Resolution	600dpi	600dpi
Destinations	PC/email/FTP/SMB/USB drive/HDD	Email/FTP/SMB

Manufacturer	SHARP	Xerox
Model	MX-M1100	4110
Network Printing	**Opt**	**Std**
PPM / SPH	110 / 6600	110 / 6600
Resolution	1200x1200	1200 (unenhanced)
PDL's	PCL5e, 6 Opt PS3	PCL5e, 6 PS3
Controller 1 Chip	RM7965 (868mHz)	PowerPC 750
Controller 1 Memory	1024mb	512mb
Controller 2 Chip	(EFI) Celeron D 2.8gHz*	Celeron 2.8gHz
Controller 2 Memory	1024mb	1024mb
Controller 3 Chip	N/A	N/A
Controller 3 Memory	N/A	N/A
Fax	**Opt**	**No**
Super G3	Yes	N/A
i-Fax	Opt	No
Finishing	**Opt**	**Opt**
Max staples	100	100
Max saddle staples	15	15
Z-folder	Yes	Yes
GBC	Yes*	No
Perfect binder	No	No
Consumables		
Toner capacity	120,000	81,000
Developer capacity	500,000	
Drum life	1,000,000	505,000
Hot swappable toner	Yes	
Security		
HDD delete/overwrite	Opt	Opt
Network Encryption	Yes	Yes
IP/Mac filtering	Yes	Y/N
LDAP	Yes	Yes

* Not available at launch time

Advantages of Sharp MX-M1100	Advantages of Xerox 4110
• Heavier paper support • More paper cassettes available • More copier memory • Separate print & copy memory • Faster scanning • Optional colour scanning • More powerful print controller (Sharp controller compared to std Xerox controller) • Fax / iFax functionality • GBC punch (available at a later date) • Toner yield	• Std network printing & scanning • Faster warm-up time • Larger std paper capacity • Faster FCOT • Larger paper size support

Sharp MX-M1100 vs. Xerox Nuvera 100 Copier / Printer



Manufacturer	SHARP	Xerox
Model	MX-M1100	Nuvera 100
Network Printer	Opt	Std
Copier	Std	Std
Network Scanner	Opt	Std
Fax	Opt	No
I-Fax	Opt	No
Engine		
Engine Speed	110ppm	100ppm
Warm-up time	240 seconds	480 seconds
Paper supply (std)	3000	5800
Paper supply (max)	8050	11600
Max Paper weight	300gsm	220gsm
Max paper size	320x470	320x420
Cassettes (std)	4	4
Cassettes (max)	7	8
Copy	**Std**	**Std**
Copy speed	110ppm	100ppm
FCOT	3.2 seconds	9.3 seconds
Resolution	600x600	600x600
Max. Qty. select	9,999	9,999
Memory (std)	768mb	1024mb (shared)
Memory (max)	1536mb	1024mb (shared)
Zoom range	25-400%	25-400%
Document Feeder	**Std**	**Std**
Type	DSPF	DSPF
Capacity	250 sheets	300 sheets
Scanning	**Opt**	**Std**
Speed	120ipm	120ipm
Colour	Opt	No
Max. Resolution	600dpi	600dpi
Destinations	PC/email/FTP/SMB/USB drive/HDD	Email/FTP/SMB/ HDD/URL

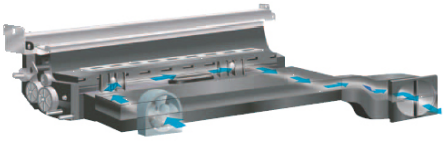
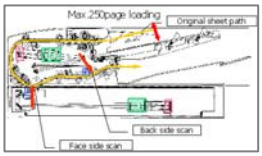
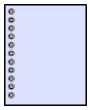
Manufacturer	SHARP	Xerox
Model	MX-M1100	Nuvera 100
Network Printing	**Opt**	**Std**
PPM / SPH	110 / 6600	100 / 6000
Resolution	1200x1200	1200x1200
PDL's	PCL5e, 6 Opt PS3	PCL6 / PS3
Controller 1 Chip	RM7965 (868mHz)	UltraSPARC 650mHz
Controller 1 Memory	1024mb	1024mb (shared)
Controller 2 Chip	(EFI) Celeron D 2.8gHz*	N/A
Controller 2 Memory	1024mb	N/A
Controller 3 Chip	N/A	N/A
Controller 3 Memory	N/A	N/A
Fax	**Opt**	**No**
Super G3	Yes	N/A
i-Fax	Opt	No
Finishing	**Opt**	**Opt**
Max staples	100	100
Max saddle staples	15	15
Z-folder	Yes	Yes
GBC	Yes*	No
Perfect binder	No	No
Consumables		
Toner capacity	120,000	110,000
Developer capacity	500,000	110,000
Drum life	1,000,000	110,000
Hot swappable toner	Yes	Yes (dual cartridge)
Security		
HDD delete/overwrite	Opt	Opt
Network Encryption	Yes	Yes
IP/Mac filtering	Yes	Y/N
LDAP	Yes	Yes

* Not available at launch time

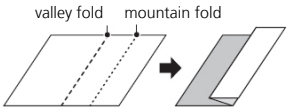
Advantages of Sharp MX-M1100	Advantages of Xerox Nuvera 100 Copier / Printer
• Faster engine speed • Faster warm-up time • Heavier paper weight support • Larger paper size support • Faster FCOT • Separate printer & copier memory • More copier memory available • Colour scanning option • More powerful print processor • Optional EFI print controller • Optional Fax & iFax • GBC punch (available at a later date) • Higher capacity consumables • MAC address filtering	• Std network printer & scanner • Larger std & max. paper capacity • More paper sources available • Higher capacity document feeder • Dual toner cartridge

FEATURE LIST

■ General Setting Functions

Name	Description
Auto Clear	The MX-M1100/950/850 series will return to its initial state after a certain period of inactivity.
Auto Power Shut-Off	Turns the machine off after it has remained idle for a preset amount of time. You can preset this shut-off time as desired.
Auto Tray Switching	If one of the paper trays runs out, it automatically switches to another paper tray filled with the same size & type paper. Two or more trays must be filled with the same size & type paper to use this function.
Developer Cooling System	The MX-M1100/M950/M850 Developer Cooling System for the developer unit helps to prevent excessive heat building up and this way keeps the image quality stable even in high volume environments 
Device Cloning	Copies the data settings from one of the MX-M1100/950/850 series MFPs and sends it to another device from the same series.
Device Control (Auditing)	Controls and restricts all user parameters.
Device Control (Restriction)	Restricts the use of specified peripheral devices. (For example, when the duplex unit is out of order, it's use can be restricted to avoid paper jam.)
Display Contrast	Adjusts the contrast of the LCD control panel.
Display Language	Selects the display language.
Double Feed Detection	There are two senseors to detect double feeding paper. (In main unit and in document feeder) When the sensors are detecting double feeding, it is treated as a paper jam. (MX-M1100/950 only)
DSPF (Duplex single pass feeder)	With 250 sheet Duplex Single Pass Feeder both sides of document can be scanned at the same time, which improves duplex productivity - 120 sheets per min simple document (MX-M950/1100) or 85 sheets per minute simple document(MX-M850) (This speed is about B/W simple document. Info about colour / duplex document, see page 73) 
E-mail Alert	Sends an e-mail to notify the user of any possible problems with the machine (e.g. it has run out of toner or paper).
E-mail Status	Notifies the user of the current status of the machine by sending an e-mail on a regular basis.
Energy Save Key	Energy Save Key suppresses standby power consumption to contribute Environmental performance.
Firmware Update	Provides diverse methods of updating firmware.
Function Review	Confirms the status of special functions in use (by a touch of an icon on the LCD control panel)
GBC punch unit	Optional GBC punch unit can punch multiple holes for loose-leaf binder (available at a later date) 

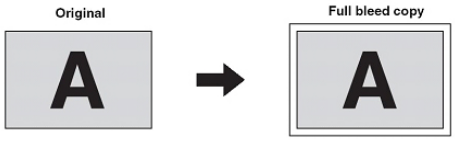
Highly rigid frame	High-rigidity frame helps better protect and isolate critical machine components to ensure increased reliability and durability.
Job Priority	Changes the job order for jobs that need priority.
Job Status	Displays the status of jobs in progress as well as list of finished jobs.
Job Status Lamp	Job status lamp enhances visibility of the machine from a distant location.
Independently Driven Motor Units	This design improvement provides highly reliable machine operation and helps to ensure more dependable paper transportation throughout each reprographic cycle - increasing durability in the long run.
Inserter	This option enables users to attach pre-printed covers or inserts up to 200g/m^2 in weight to your documents for truly professional results.
Key Touch Sound	Adjusts the key touch sound.
Keyboard Select	Changes the keyboard on the touch-screen LCD control panel. (For example, QWERTY, AZERTY, ABCDE)
Message Time Control	Selects the period of message display.
Meta Data Set	Generates corresponding XML data when scanning an image.
Multi Access	Multiple jobs can be performed at the same time. (For example, while a large copy job is in progress, originals for the next copy job can be scanned. And as soon as the first job is finished, the second job starts automatically.)
Non-Detachable Maintenance (full front access to the key componenets)	This means service and general maintenance of the MX-M850/M950/M1100 is easier as technicians can slide out main units without the need to disassemble the entire machine for any adjustment or exchange of sub-components. This also shortens the downtime of the machine
Offset	An optional finisher of MX-M1100/950/850 series stacks multiple sets of documents offset or slightly shifted apart for each individual job from different users.
Paper Tray Registration	Enables users to register types of paper outside the default settings, and makes it possible to restrict specific functions according to the paper type. (For example, pre-printed paper can not be used with the duplex copy / printing.)
Pre-Heat Mode	Is the first level of power reduction on the MX-M1100/950/850 series. After the machine has completed a job and no further machine operations have been performed, the power to the fuse unit is reduced.
Protocol	Supports four commonly used network protocols. (TCP/IP version 4 / 6, IPX/SPX, NetBEUI, and Ether Talk)
Punch unit for finisher	The optional module automatically punches holes in output documents.

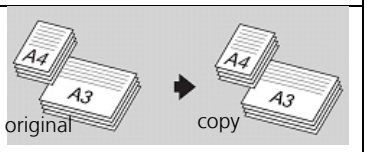
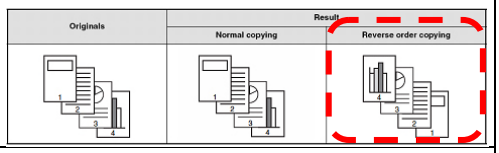
Saddle Stitching and Folding	The optional Saddle Stitch Finisher automatically folds and staples output with two-page spreads.
Service Set-up	The user can configure the settings of the MFP from computer using a Web browser (such as Netscape Navigator or Internet Explorer).
Sharp OSA™. (Open Systems Architecture)	Sharp OSA™ is a second-generation development platform that can transform our customers' MFPs into a gateway to the network. It allows third-party software developers to easily customise the MFP - according to specific user applications. This enhances ease of use of the MX-M1100/950/850 series and increases efficiency.
Slow Scan Mode	Thin paper(38～49g/m^2) can be scanned by DSPF with a little slow scan speed (80opm)
Stamp unit	This option is mounted in DSPF and it affixes a stamp to scanned document. Therefore if there are unprocessed documents, these can be checked easily.
Staples	The optional Finisher or Saddle Stitch Finisher staples together output documents.
Transfer Belt System	Reduces the side effect from rough paper. Stable paper releasing from drum surface and image transfer are improved
Total Count	Displays the number of times the machine has been used.
Tray Setting (Paper Type)	Enables the designation of paper type (such as plain paper, recycled paper or coloured paper) for each paper tray.
User Control (Auditing)	Allows the network administrator to monitor and control the amount of use accumulated by individual users. (New models can control more parameters.)
Z folding	Paper sheets can be folded to reduce the paper size by half (A3 to A4 and A4 to A5) 

■ General Connectivity

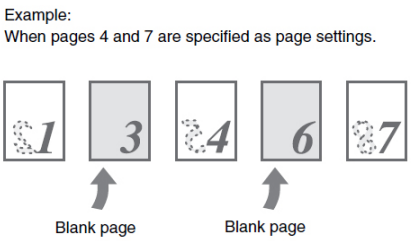
Name	Description
Connection Test	The user can test the connection between the MX-M1100/950/850 series and a mail/LDAP server using a Web browser screen on a PC.
LDAP	Lightweight Directory Access Protocol (LDAP) support simplifies the input of e-mail addresses by allowing the MX-M1100/950/850 series to access address data stored on LDAP servers.
IP version 6	IPv6 follows IPv4 as the next version of the Internet protocol to be formally adopted for general use. (Available from July 2007)
Printer Port	Supports two commonly used printer ports (10Base-T/100Base-TX, USB2.0).

Copy Functions

Name	Description
Auto Magnificent Selection	Automatically selects the appropriate copy ratio according to the original document size and selected paper size.
Auto Paper Selection	Automatically selects the same paper size as the original document set on the platen or in the document feeder.
Automatic Saddle Stitching	Documents can be saddle stitched or folded using optional finishers.
Book Copy	Makes copies of books in pamphlet format.
B/W reverce	As the name of this function implies, black and white in the copy are reversed to create a negative image (except UK)
Card Shot	Prints the front and back of the original onto one side of the paper.
Centering	This function is used to center the copied image on the paper. When the original size is smaller than the paper size (or when the image is reduced), the image is placed in the center of the paper.
Copy Ratio (Preset)	In addition to the preset enlargement/reduction ratios, the user can set their own frequently used copy ratios.
Copy Set Setting	The number of copies can be specified using a numeric keypad. (Max. 9999)
Cover	Inserts a different type of paper (paper weight, colour, etc.) as the front and back cover of a copy job when using the document feeder.
Date Print	Prints the date in any of the four available formats: YYYY/MM/DD, MM/DD/YYYY, DD/MM/YYYY MM DD,YYYY,
Dual Page Copy	Produces separate copies of two documents placed side by side on the platen.
Duplex Copying	Prints on both sides of the paper.
Duplex via Bypass	Automatically prints on both sides of the paper fed from an optional bypass tray.
E-sort (Electronic Sorting)	Automatically collates multiple sets of copies in page order without the aid of a sorter.
Erase	Erases shadows that appear around the edges of copies of books and other thick originals. (Edge erase) Can also erase the shadows that appear down in the centre of books and other originals that open up (Centre erase) Both the shadow lines around the edges of copies and the shadow at the centre can be erased. (Edge + Centre erase)
Exposure	Exposure can be selected according to the type of originals being copied. (Text, Text/Photo, Photo, and Auto-Select)
Extra Size	Enables users to enter non-standard dimensions for a copy paper or originals.
Full Bleed Copy	An entire original can be copied at full size, without cutting off the edges of image by using larger size paper than the original. (For example, A3 size original can be copied on A3W size paper.) 
Group	Output of large-volume copies can be grouped by page.
Initial Status Setting	Enables customising of the machine's default state.
Insert	Inserts a different type of paper (paper weight, colour, etc.) in between pages as a document insert when using the document feeder.
Interrupt	A copy job can be interrupted to enable another job.

Job Build	Convenient for producing jobs with more originals than the document feeder can hold. Combines multiple scanning jobs and copies them as one original set.
Job Program	Frequently used copy settings such as density, copy ratio and other special functions can be stored for easy recall.
Job Reservation	Even when the machine is copying, the user can reserve the machine for the next copy job if the platen is free.
Margin Shift	Moves the margin by any specified amount.
Mirror Image	Copies a mirror image of the document.
Mixed Size Original	Copies documents of different sizes that are fed through the document feeder. * MX-M1100/950/850 can treat both 'same width documents'(e.g. A4 and A3) and 'different width documents' (e.g. A3 and B4) 
Multi Shot (2-in-1, 4-in-1)	Copies multiple originals onto a single sheet.
Multi page enlargement	This function is used to enlarge an original image to a size larger than A3 and print the divided images onto multiple sheets of copy paper.
Page Numbering	Prints the page number on the top or the bottom of the paper.
Pamphlet Copy	Arranges copies in proper order for eventual centre stapling and folding into a booklet.
Photo repeat	Places multiple copies of an original onto a single sheet.
Process Control	Monitors copy quality and makes adjustments to ensure optimum results.
Proof Copy	Before copying multiple sets, this feature can output one set to be checked. If there is no problem, the remaining number of sets can be output by touching the LCD panel. (It is possible to modify the setting before copying).
Reverse Order	When reverse order copying is used, the copies are delivered face up in order beginning from the first page, which means that the copies are in the reverse order of the original pages. 
Rotation Copy	When Auto Paper Select mode or automatic Ratio selection are in operation and the original is placed in a different orientation (vertical or horizontal) from the paper, the original image will be automatically rotated 90 degrees to enable correct copying onto a paper
SOPM (Scan Once / Print Many)	A single scan can provide multiple sets of copies with memory and HDD storage of scanned images. -Less damage to the original document. -High productivity due to minimised scanning time.
Stamp	Prints one of 12 messages such as "CONFIDENTIAL" in bold reverse letters. The user can select density levels and the size of the stamp.
Tab Copy	Copies onto the tabs of document separators.
Tandem Copy	Connects one machine to another within the MX-M1100/950/850 series, and this way shares a single job between two machines.
Text Print	Prints up to 50 characters of text such as "5-YEAR INTERIM PLAN". Frequently used text sets can be stored on the MFP.
Transparency Insert	Places blank insert sheets between transparent sheets when copying onto a transparent film.
XY Zoom	Makes a copy that has different enlargement/reduction ratios horizontally and vertically.

■ Printer Functions

A4/Letter Auto Change	If the user wants to print A4 size data but A4 paper has run out, this feature allows to print it on a letter size paper.
Auto Job Control Review	Automatically displays the job settings before printing so the user can check them.
Bar Code Font	Enables printing of barcodes.
Binding Edge	Determines how the left, right and the top edges of the document's front and back pages are positioned when automatically printing on both sides using the duplex function.
Carbon Copy	Enables printing of same data on a paper sheet from two different paper trays.
Chapter Inserts	When performing two-sided printing, there can be a request that the first page of all chapters should be placed on the right or the left side of the facing pages to achieve a professional looking output. To meet this type of request, MX-M850 / 950 / 1100 has a 'Chapter insert function'. The function can be executed by inputting specific page numbers to printer driver interface 
Continuous Print (Extra Print Mode)	When a large number of small-volume print jobs are sent to the MFP within the MX-M1100/950/850 series, it processes these jobs as a single print job. This eliminates procedures normally required between separate print jobs (such as polygon mirror control processing), thus enhancing printing efficiency.
Different Paper Setting	Inserts a different type of paper for the cover page (letter head paper, coloured paper, etc.)
Direct Print (e-mail)	When an e-mail account for the MFP is set up on the mail server, the user can send an e-mail to the MFP with attached print data (with extensions such as .pcl, .ps, .pdf, tiff, and tif). The data can then be printed without using a printer driver. (The MFP prints it automatically.)
Direct Print (FTP)	FTP server can be stored on the MFP to enable direct printing of files from the server using the control panel and without the need for a printer driver. Files with the extensions .pcl, .ps, .pdf, tiff, tif, and prn can be printed out.
Direct Print (Web)	Prints data (with the extensions such as .pcl, .ps, .pdf, tiff, and tif) via a web page without using a printer driver.
Duplex Printing	Prints on both sides of the paper.
ESC/P (Super) Setting	Enables setting changes (printing start position, fonts, reduced size printing, etc) when printing in ESC/P.
Fit to Page	Automatically selects a reduction/enlargement ratio to match the selected paper size.
Graphics Mode	Selects the graphics mode. (raster, vector)
Image Orientation	Chooses between portrait and landscape as an image orientation for print jobs.
Interface Setting	Configures the interface setting (for example, IO time out, port switching method).
Line Thickness	Selects the line thickness.
Mirror Image	Reproduces a mirror image printout of the original print data.
Notice Page	Prints a notice page automatically (for example, "print error caused by no PIN code in audit mode")
Notify Job End	A pop-up screen appears on the user's PC to notify that the print job has finished.
N-up	Multiple pages of data can be printed onto a single sheet

Object Control	Enables setting of items such as fonts and graphics modes.
Overlay	Prints a pre-registered overlay on print data.
Pamphlet	Creates pamphlet-style pagination from either single or double-sided normal originals. Professional finishing is possible without outsourcing.
Paper Selection (Paper Type)	Configures the type of paper in paper tray via the printer driver user interface. (For example, plain, recycled, coloured, heavy paper, transparency) Certain printer functions can be restricted automatically according to the paper type.
PCL Setting	Enables setting changes when printing in PCL.
Print Density Level	Selects the print density level.
Resolution setting	Selects the printing resolution. (300 dpi, 600 dpi. in case of using optional PS driver, 1200x600.)
Retention	The user can store output in the HDD and retrieve it by using three modes. [Advance] The three modes are 'hold after print', 'hold before print' and 'proof print'.
Hold after Print	The data is printed and then stored.
Hold beforePrint (Hold Only)	The data is stored, not printed.
Proof Print (Sample Print)	Only one set is printed, and then the data is stored.
ROPM (RIP Once / Print Many)	Downloads and stores large multi-page print data to memory once, and re-uses the data to process multiple print sets.
Rotate 180 Degrees	Prints jobs rotate 180°.
Tandem Print	Connects one MFP to another MFP within the MX-M850/950/1100 series and this way shares printing jobs between two machines.
Toner Save	Prints using less toner than the usual amount.
Transparency Insert	Places blank insert sheets between transparent sheets when printing onto transparent film.
Watermarks	Prints a watermark such as "IMPORTANT" or "CONFIDENTIAL" onto printouts.

■ Image Send Functions (General)

Name	Description
2-Sided Original Sending	Scans 2-sided originals efficiently using DSPF.
Ad-hoc Address	The user can input ad-hoc addresses as needed.
Broadcasting	Sends a document to multiple destinations with one-touch operation.
Card Shot	Arranges the back and front of an ID card onto one side of the sheet with a simple operation.
Dual Page Scan	Divides and scans two documents onto two separate pages.
Erase	Erases shadows that appear around edges when scanning a book original or a thick original. (Edge erase) Can also erase the shadows that appear down in the centre of books and other originals that open up. (Centre erase) Both the shadow lines around the edges of the scanned image and the shadow at the centre can be erased. (Edge + Centre erase)
Exposure	Adjusts the image density for the original.
Import/Export Address	Copies address data from one MFP and sends it to another MX-M1100/950/850 series machine. ('Via Web page' only. 'Via USB memory' isn't supported.)
Job Build	Convenient for scan jobs with more originals than the document feeder can hold. Combines multiple scanning jobs and transfers them as one file.
Job Programme	Registers settings of scan jobs, which can be called up with easy operation.
Long Original Transmission	Scans long originals (MAX 800 mm in length) by feeding them into DSPF.
Memory Transmission	Once a document is scanned, it is stored in memory.
One-Touch Address	Resisters commonly used addresses, which can be easily selected on the LCD control panel.
Quick Key	Calls up any registered address by entering three-digit number the user registered at the time of the address registration.The number is entered using numeric keys.
Resend	This function enables selecting frequently used addressed by storing the last 8 addresses used. By touching a [RESEND] key, previous destinations can be called up.
Resolution	Selects the scanning resolution. (For example, 200 dpi, 300 dpi, 400 dpi, 600 dpi)
Scaled Transmission	Enlarges or reduces the original for transmission.
Sending Restriction	Enables maximum limitation of scanned data to be set.
Timer	Specifies the time of transmission or polling operation up to two weeks in advance.
Transaction Report	Prints out a transaction report automatically so the user can confirm the transaction results.

■ Image Send Functions (Scan/i-Fax)

Name	Description
Ad-hoc File Name	Enables input of the file name when sending an e-mail.
Ad-hoc Message	Enables input of an e-mail message.
Ad-hoc Subject name	Enables input of the subject name when sending an e-mail.
CC/BCC Sending	Sends an e-mail using CC and/or BCC.
Colour Mode	With optional Colour Expansion Kit, colour documents can be scanned.
File Format	The MX-M1100/950/850 series supports two or three commonly used file formats for scanned data (B/W:TIFF and PDF, Colour:TIFF, PDF,and Jpeg).
Linearized PDF	This is a variation of PDF format, which enables release of multi-page PDF files on a WEB site. The first page can be seen before all page data is downloaded to user's PC, and hence the waiting time is cut short. This can be used on Scan to Desktop only, and Network Scan Tool version should be 3.2 or later. (N.S.T. 3.2 users should download a patch file from Sharp WEB site.) This can be used with all Sharp MFPs that support N.S.T..
Network TWAIN	The MX-M850/950/1100 series supports TWAIN, enabling it to be used efficiently with TWAIN-compliant software.
One Page Per File	Scans multiple documents at once and groups them into separate files for each page. (TIFF and PDF)
Resolution	Selects the optimum scan resolution for the original.
Scan Destination	Sends and forwards scanned images to destinations connected on the network (or local storage) by using handy and easy-to-use options: Send to Desktop / Send to E-mail / Send to FTP / Send to Network Folder / Send to HDD
Send to Desktop	Forwards scanned files directly to a PC without routing through a server. These files automatically appear on your desktop as thumbnails.
Send to E-mail	Sends scanned files as an attachment to any e-mail address on the Internet.
Send to FTP	Sends scanned files for storage on FTP server. If you configure the Scan to FTP Server settings, the MFP automatically sends an e-mail to destinations that are wedded to the data. The message contains links to the scanned files, so receivers can view the file with a single click.
Send to HDD	Sends scanned files to the MFP's HDD.
Send to Network Folder	Sends scanned files for storage on a file server that uses SMB. (SMB is a type of protocol commonly used on Windows PCs.)
Suppress Background	This feature is used to suppress light background areas. *This function cannot be used in Internet fax mode (and in fax mode). And to use this function, the colour expansion kit must be installed.

■ Image Send Functions (Fax)

Name	Description
2-Sided Reception	Prints an incoming fax on both sides of the paper.
Chain Dial	By pressing a Pause Key, the number entered before this can be combined with a number entered afterwards.
Destination Confirmation Mode	Before sending a faxes, the address will need to be confirmed or enteres again. The function reduces risk of data being sent to a wrong addrress.

Direct Transmission	After the connection is established and the fax signal from the other machine is confirmed, scanning begins without using memory.
F-Code	F-Code is a standard established by the ITU-T to ensure greater security and confidentiality in fax transmissions. Until now, special communication (for example, 'confidential transmission' and 'relay broadcast transmission') could only be performed with another Sharp fax machine. However, these functions are now possible with other fax machines, as other manufacturers have started to support F-Code.
Inbound Routing	Incoming faxes are categorised according to the senders fax number and they can be transferred by an e-mail.
Page Numbering	Numbers incoming fax pages when printing them out.
PC-Fax	Sends data directly from a PC to a fax machine without printing the data on a paper.
Polling	Polling is the process that verifies the readiness of another fax machine to send and receive information. To do so, information must already be stored on that machine in "polling memory." This process can also be performed in reverse by scanning a document to polling memory on your fax machine as the information for the recipient fax machine.
Quick On-line Transmission	Sends a multiple-page document as soon as the first page is scanned into memory.
Recall Mode	If the recipient is busy, it tries to resend the document after a certain period of time.
Received Data Print Hold	Allows users not to print out the incoming faxes.
Rotate Transmission	The MX-M1100/950/850 series is set by default to rotate a vertically placed original so that it is oriented horizontally before transmission.
Bound originals scanning	Enables scanning of originals that normal fax machines can't scan.

■ Document Filing

Name	Description
Back Up via Web Page	Backs up data via a web page.
Browsing via Web Page	Enables browsing and data management via a web page.
Confidential File	Protects confidential files with a password.
Confidential Folder	Protects confidential folders with a password.
Data Saving Capability	Data files are saved in Quick file folder (MAX 14,000 pages or 1000 files) and Main/Custom folder (MAX 45,000 pages or 3000 files). (*B/W scan / 4 sizse / text dovument)
File Name	Files can be given a name with up to 30 characters. File names (job name + saved date) can be automatically generated for files in Standard Folders.
Property Change	The property of saved files can be switched between sharing, protect or confidential.
Reprint	Reprints data saved on the MFP with an easy operation.
Resend	Resends data saved on the MFP with an easy operation.
Searching	Searches files via the touch-screen LCD control panel.

■ Applications

Name	Description
Network Scan Tool	This application detects all available MFPs on the network and creates destination addresses automatically. It also receives scanned data from other MFPs.
Printer Administration Utility (Client)	This Sharp original software makes printer network easier to manage as it allows network administrators to customise monitored items and view settings such as IP addresses directly from their PC.
Printer Administration Utility (Web)	This is the latest version of Sharp's Printer Administration Utility software, which includes a host of new features (for example, Automatic Installation).
Printer Status Monitor	This software utility is a useful feature, as it allows you to monitor important printer information on your PC. And if the machine needs attention, it alerts you via an easy-to-follow pop-up display. [Advance] Important information includes on-line/off-line status, name of the current active print job, and machine conditions (such as amount of paper or toner).
Sharpdesk®	Sharpdesk® is Sharp's original document management software and is fully integrated with Sharp MFP scanner functions. This software provides you with a personal, PC desktop based system for managing scanned images and electronic file documents.

■ Security Functions

Name	Description
Confidential Print	This function is part of the 'Retention Print' function. 'Hold after Print with PIN or Pass Code' is called 'Confidential Print.' This feature requires the user to enter a personal ID number on the MFP before printing can begin.
Data Security Kit	With the optional Data Security Kit, data that has been scanned for copying or printing is automatically cleared from storage after the job is finished. It can also encrypt certain type of data, and provide Document Control Function (See next page.)
Disabling of List Print	Network settings and private information such as IP addresses and address books are stored in the main unit. The printout of this data can be disabled to guard against unauthorised outside access.
Document Administration	Forwards all sent/received documents into. e-mail, 'FTP', 'desktop' and ' Network Folder' to the administrator
Document Control	This is one of the copy / printer functions. (Optional data security kit is required.) It prints invisible 'dot pattern' on printouts, and if Sharp MFP with Data Security Kit scans this output, MFP will stop (or print/send blank page data). This prevents unauthorised copying, scanning, faxing and filing of confidential documents.

Encrypted PDF	When users scan the document, they can choose the 'Encrypted PDF' format. When data of this format is opend, it requires a pass word.
IP/MAC Address Filtering/Port Filtering	IP/MAC address filtering controls MFP access to enable secure network printing. Port filtering blocks unwanted TCP/IP services and enhances network security.
IP-sec	It is a security technology that can be used in the TCP/IP environment. It can do the encryption and the authentication of the IP packet.
Job Log	Keeps a log of machine operations. (The logs are exported via the We)
Network Authentication	Provides access to various servers (such as mail and FTP servers) for users who have been authorised. (Optional network scanner is required)
Sender Control	The prevention of impersonated transmissions when scanning to e-mail is essential. For this purpose, the [Sender Name] selection in the [Send] settings for Scan to E-mail operations can be enabled/disabled as and when needed. When the selection is disabled, the web page administrator's address is applied to the sender and changes are restricted.
SSL Network Communication	Enables data communication using SSL (Secure Sockets Layer), a protocol that encrypts data for transmitting over networks.

SPECIFICATIONS

■ Basic Specifications

Base Engine							
Engine Speed		110ppm		95ppm		85ppm	
	Paper Size	Straight Rejection	Reversing Rejection	Straight Rejection	Reversing Rejection	Straight Rejection	Reversing Rejection
	318 x 469.5mm*	52	38	45	35	41	33
	SRA3 *	53	39	46	36	42	34
	312.5 x 440mm*	55	40	47	37	43	36
	A3	57	41	49	38	44	36
	B4,	63	50	55	47	50	45
	A4, B5, A5R,	110	110	95	95	85	85
	A4R, B5R	72	63	63	59	58	57
	Postcard continuous feed*	60	-	51	-	46	-
	Extra	52	35	45	31	41	29
	* Enabled by installing the option.						

Photo Conductor	OPC(Diameter:φ120mm)	
Recording	Electronic Photo (Laser)	
Development	Dry-Type Dual-Component Magnetic Brush Development	
Charging	Charged saw-tooth method	
Transfer	Transfer Belt	
Cleaning	Counter Blade	
Fusing	Heat Roller	
Toner supply method	Continuous run	
Waste toner disposal	No toner recycling system/ Waste toner bottle system	
Engine Resolution		
Resolution	Copy: 600 x 600dpi Printer: 1200 x 1200dpi/600 x 600dpi(PCL/PS), 600x600dpi(PCL5e/6e,ESC/P)	
Smoothing function	No	
Tone	Monochrome:2 levels(1bit)	
Warm up Time	240 second or less	
Pre-heat	Available	
Jam recovery time*	Approximately 15 Seconds *Condition: After the door is kept open for 60 seconds, standard setting, the polygon motor halt.	
Power Source Consumption	85ppm	95/110ppm
Voltage /Current	220-240V 8A + 220-240V 2.5A	220-240V 13A
Power Switch	2 switches (Primary switch: in the front cover; Secondary switch: the operation panel)	
Max. Rated Power Consumption	1.84Kw + 0.6Kw or less	2.99Kw or less
Dimensions	1,301 x 771 x 1,518mm (contains operation panel)	
Ocupied Dimensions	1,301 x 771(contains operation panel)	
Weight	About 300kg	

Reliability Target	85ppm	95ppm	110ppm
Life	24,000 k or 5 years		
PM cycle	500 k		
Max. print volume	500 k		
Av. print volume	50-200 k	100-250 k	150-300k
MCBJ(MPBJ)	150K		
MCBF(MPBF)	200K		

Controller Board								
CPU	85cpm machine: RM7965A-900W, 868MHz 95/110cpm machine: RM7965-1000W, 992MHz							
Interface								
IEEE1284 Parallel	No							
Ethernet	10Base-T/100Base-TX x 1 port							
	Support Protocol	TCP/IP IPv4 IPv6*,IPX/SPX, NetBEUI, EtherTalk						
		*IPv6 will be supported on Aug 2007.						
USB 2.0 (Full Speed) Host	1 port USB devices supported will be defined separately (Refer to Device Option) (Full/High Speed does not affect the speed of firm updating.)							
USB 2.0 (High Speed)Device	1 port (For service) (Full/High Speed does not affect the speed of firm updating.)							
Video I/F (For EFI)	1 port (option)							
Memory slot	3 slots (Local x 2, System x 1)							
Memory / Hard Disk								
Local Memory – 1 (copy/scan)			Local Memory – 2 (copy/scan)		System Memory (print)			HDD
Standard slot	EXT slot		Standard slot	EXT slot	On board	Standard slot	EXT slot	
512MB	256MB *1		256MB	512MB *1	256MB	256MB	512MB *2	80GB *3

*1: Bundle to Colour expansion kit
*2: Bundle to Printer expansion kit
*3: HDD capacity depends on procurement and sourcing status

Operation Panel	
Display Dot Number	640x480(VGA)
LCD Back Light	Fluorescent Tube, Back Light
LCD Contrast Adjust	Contrast/Brightness
Operation Panel Liquid Crystal	256 Colour, TFT 10.4 inches
Angle/Position Adjustment	Arm: Left/right fixed, LCD: Left/right/up/down adjustment

Paper Feeding Section (STD: Large Capacity Tray(Parallel LCC) + 2-paper Tray)		
Feeding Method	Feeding from the upper section with front loading	
Double Feed Detection	Available (Transparency paper and Label paper is not detected.)	
Tray1(in Parallel LCC Left Tray)		
Paper Size	A4, 8.5x11"Adjustable by guide adjusting and System Setting)	
Paper Type	Plain paper, Pre-printed paper, Recycled paper, Letter head, Pre-punched paper, Coloured paper (*Users can set up by-type of all of these paper types.)	
Feedable Paper Weight	60 - 105g/m^2	
Paper Capacity	Standard Paper : 1200 sheets(80g/m^2)	
Detection of Remaining Paper	Level detection (3 levels and none)	
Tray2(in Parallel LCC Right Tray)		
Paper Size	A4, 8.5"x11" (Adjustable by guide adjusting or System setting)	
Paper Type	Plain paper, Pre-printed paper, Recycled paper, Letter head, Pre-punched paper, Coloured paper (*Users can set up by-type of all of these paper types.)	
Feedable Paper Weight	60 - 105g/m^2	
Paper Capacity	Standard Paper : 800 sheets (80g/m^2)	
Detection of Remaining Paper	Level detection (3 levels and none)	
Tray3		
Paper Size	Auto-AB : A3W, A3, B4, A4, A4R, B5, B5R Custom Size : No	
Paper Type	Plain paper, Pre-printed paper, Recycled paper, Letter head, Pre-punched paper, Coloured paper, Heavy paper (*Users can set up all of these paper types.)	
Feedable Paper Weight	60 - 205g/m^2	
Paper Capacity	Standard Paper 500 sheets(80g/m^2)	
Detection of Remaining Paper	Level detection (4 levels: 100%, 67%, 33%, and none)	
Tray4		
Paper Size	Auto-AB : A3W, A3, B4, A4, A4R, B5, B5R, A5R Custom Size : Main scanning: 100 - 305mm Sub scanning: 148 - 457mm (Tab paper: A4;Tab width:12mm to 20mm)	
Paper Type	Plain paper, Pre-printed paper, Recycled paper, Letter head, Pre-punched paper, Coloured paper, Heavy paper, Extra(Tab paper, Label paper, Transparency paper) *Users can set up all of these paper types.	
Feedable Paper Weight	60 - 205g/m^2	
Paper Capacity	Standard Paper : 500 sheets(80g/m^2)	
	Transparency paper	40 sheets
Detection of Remaining Paper	Level detection (3 levels and none)	
Tab Guide	85cpm:Service Parts,95/110cpm:included in the machine	

2-sided	
Form	Non-stack
Paper Size	A3W, A3, B4, A4, A4R, B5, B5R, A5R 318x469.5mm,318x234.75mm, 312.5x440mm, 312.5x220mm, SRA3(320x450mm)/SRA4(320x225mm)
Feedable Paper Weight	60 - 205 g/m^2
Paper type	Plain paper, Recycled paper, Coloured paper, Letter head, Pre-printed paper, Pre-punched paper, Heavy paper

Original Scanning Section				
Scan Resolution(dpi)	Copy Mode			
	Original Cover		DSPF	
	600x300dpi(Default), 600x600dpi, 600x400dpi		600x300dpi (Default), 600x600dpi, 600x400dpi	
	Transmission Mode			
	Scanner	Internet-Fax	FAX	
	100dpi x 100dpi	200dpi x 100dpi (Half Tone not allowed)	Standard(203.2 x 97.8dpi) (Half Tone not allowed)	
	200dpi x 200dpi	200dpi x 200dpi	Fine (203.2 x 195.6dpi)	
	300dpi x 300dpi	200dpi x 400dpi	Super Fine (203.2 x 391 dpi)	
	400dpi x 400dpi	400dpi x 400dpi	Ultra Fine (406.4 x 391 dpi)	
	600dpi x 600dpi	600dpi x 600dpi	---	
Scan Levels	10bits			
Output Levels	Copy/FAX/Internet-Fax		Scanner Mode	
	B/W:1bit		B/W:1bit Gray Scale:8bit Full Colour: RGB Each colour 8bit(option)	

DSPF (One-scan-dual-side scanning method SPF with OC integrated)		
Scan speed (A4)	85ppm	95/110ppm
Copy	1-sided : 85 sheets/minute (600x300dpi, 1bit) 2-sided : 85 pages/minute (600x300dpi, 1bit)	1-sided : 120 sheets/minute (600x300dpi, 1bit) 2-sided : 120 pages/minute (600x300dpi, 1bit)
Fax	1-sided : 85 sheets/minute (200x100dpi, 1bit) 2-sided : 85 pages/minute (200x100dpi, 1bit)	1-sided : 120 sheets/minute (200x100dpi, 1bit) 2-sided : 120 pages/minute (200x100dpi, 1bit)
Scanner Monochrome	1-sided : 85 sheets/minute (200x200dpi, 1bit) 2-sided : 85 pages/minute (200x200dpi, 1bit)	1-sided : 120 sheets/minute (200x200dpi, 1bit) 2-sided : 120 pages /minute (200x200dpi, 1bit)
Scanner Colour	1-sided: 40ppm 2-sided: 40ppm	1-sided : 60 sheets/minute (200x200dpi, 10bit) 2-sided : 60 pages/minute (200x200dpi, 10bit)
Internet-Fax	1-sided : 85 sheets/minute (200x100dpi, 1bit) 2-sided : 85 pages /minute (200x100dpi, 1bit)	1-sided : 120 sheets/minute (200x100dpi, 1bit) 2-sided : 120 pages /minute (200x100dpi, 1bit)
Document sizes	Document reading area : Minimum:140x140-Maximum:297x432mm* *Refer to the following table for document size. Mixed feeding(same type / same width) possible, Random feeding(Combinations of A3 and B4, B4 and A4R, A4 and B5, B5 and A5 is possible. AMS must be allowed.) Max.800mm on FAX long size.	
Document weights	38 - 205g/m^2, 2-sided 52 - 205g/m^2 *Thin paper(38-49g/m^2) must use Slow scan mode. Document Changing Speed when slow scan mode is 80 sheets/minutes.	
Document carrying capacity	Max.250 sheets (80g/m^2) Max. height 32.5mm	
Types of document that may not be transferred	The following documents are NOT allowed: Transparency paper, second original drawing, tracing paper, carbon paper, thermal paper, wrinkled / broken / torn document, document with cuts and pastes, documents printed by an ink ribbon, and perforated document (Perforated document by punch unit is allowed.)	
Simultaneous double-sided scanning	Monochrome/Colour allowed	
Finish stamp	Available (Stamp on the surface of original. When simplex : 1 stamp, Duplex : 2 stamp)	
Double Feed Detection	Std (MX-M950 / 1100) not available for (MX-M850)	
Pattern certification	Available(When data security kit is installed)	

■ Peripheral Devices Specifications

3-Paper Drawer (A4) (MX-LCX4)		
Paper Size (All trays)	A4, A5R, B5	
Feedable Paper Weight	Upper tray: 52 -205 g/m^2 Middle tray: 52-205 g/m^2 Lower tray: 52 -163 g/m^2	
Paper type	Plain paper, Heavy paper, Recycled paper, Thin paper, Pre-printed paper, letter head, Punched paper, Transparency paper, Coloured paper, Tab paper(Not available for the Saddle tray), Label paper(Available only for the Offset tray)	
Paper Capacity (Standard Paper 80g/m^2)	Upper tray /Middle tray: 1000 sheets Lower tray: 2550 sheets	
Detection of Remaining Paper	Available level detection at all trays (5 levels : 100%, 75%, 50%, 25%, Empty)	
Dimensions	WxDxH	W526 x D728x H980mm
Occupied Dimension	540 x 730mm	
Weight	Approximately 95kg	

3-Paper Drawer (A3) (MX-LCX5)		
Paper Size (All trays)	Auto-AB : A3W, A4W, A3, B4, A4, A4R, B5, B5R, A5R Manual : 318x469.5mm, 318x234.75mm, 312.5x440mm, 312.5x220mm SRA3(320x450mm), SRA4(320x225mm) Postcard Custom Size : Main scanning: 100-320mm Sub scanning: 140-470 mm	
Feedable Paper Weight	Upper tray: 52 -205g/m^2 Middle tray: 52 - 300g/m^2 Lower tray: 52 - 205g/m^2	
Paper type	Plain paper, Heavy paper, Recycled paper, Thin paper, Pre-printed paper, Letter head, Punched paper, Transparency paper, Coloured paper, Tab paper, Label paper(Available only for the Offset tray)	
Paper Capacity (Standard Paper 80g/m^2)	Upper tray / Lower tray: 1,000 sheets Middle tray: 2,000 sheets	
Detection of Remaining Paper	Available level detection at all trays (5 levels : 100%, 75%, 50%, 25%, Empty)	
Dimensions	W x D x H	W878 x D729 x H980mm
Occupied Dimension	W880 x D730	
Weight	Approximately 175kg	

Bypass Tray for 3-Paper Drawer (MX-MFX2)	
Paper Size	Auto-AB : A3W, A4W, A3, B4, A4, A4R, B5, B5R, A5R, Post Card Manual : 318x469.5mm**, 318x234.75mm**, 312.5x440mm** 312.5x220mm**, SRA3(320x450mm)**, SRA4(320x225mm)** Custom Size When installing in A3LCT: Main scanning: 100-320mm Sub scanning: 140-470 mm When installing in A4LCT: Main scanning: 100-305mm Sub scanning: 140-457 mm **When installing in A4LCT, it is not possible to output these paper.
Feedable Paper Weight	52-205g/m^2
Paper Feeding Capacity	500 sheets(80g/m^2) ,550 sheets(64g/m^2) Stacking Height: Up to 55mm
Paper Type	Plain paper, Heavy paper, Recycled paper, Backing paper, Thin paper, Letter head, Punched paper, Transparency paper, Coloured paper, Tab paper, Pre-printed paper
Detection of Remaining Paper	Available 4 level l (Not Display.) 100%, 90%, 50%,10%, Not including paper detection
Dimensions	793x581x164mm (When tray expanded width:968mm)
Weight	Approximately 21Kg

Large Capacity Tray (A4) (MX-LCX6)		
Paper Size	Manual: A4, 8.5x11	
Feedable paper weight	60 - 205g/m^2	
Paper type	Plain paper, Heavy paper, recycled paper, pre-printed paper, letter head, pre-punched paper, coloured paper	
Paper Capacity	3,500 sheets (80g/m^2)	
Detection of Remaining Paper	Available level detection (6 levels and none)	
Dimensions	WxDxH	367 x 550 x 523mm
Occupied Dimension	370 x 554mm	
Weight	Approximately 28kg	

Large Capacity Tray (A3) (MX-LCX3N) (common with MX-M5500/M6200/M7000, but for MX-M850/950/1100, the firmware shouled be updated)		
Paper Size	Manual : A3W, A3, B4, A4, A4R, B5	
Feedable Paper Weight	60-205g/m^2	
Paper type	Plain paper, Heavy paper, recycled paper, pre-printed paper, letter head, Punched paper, coloured paper	
Paper Capacity	3,000 sheets (80g/m^2)	
Detection of Remaining Paper	Available level detection (6 levels and none)	
Dimensions	WxDxH	WxDxH: 690x578x522mm
Occupied Dimension	WxD	696x588mm
Weight	Approximately 50Kg	

Bypass Tray (MX-MFX1)		
Paper Size	Auto-AB : A3W, A4W, A3, B4, A4, A4R, B5, B5R, A5R, Postcard, Custom Size : Main scanning: 100 - 305mm Sub scanning: 140 - 457mm	
Feedable Paper Weight	Paper Weight : 52 - 300g/m^2	
Paper Capacity	Standard Paper (80 g/m^2 paper)	100 sheets
	Postcard	20 sheets
	Transparency paper	20 sheets
	Heavy Paper	20 sheets
	Tab paper	20 sheets
	Other Extra (Label paper etc)	1 sheets
Paper Type	Plain paper, pre-printed paper, recycled paper, letter head, Punched paper, coloured paper, Heavy Paper, Thin paper, Label paper, Transparency paper, Tab paper, * (Only A4 with 12-20mm tab width is available for the tab paper.)	
Detection of Remaining Paper	Yes or No Only	
Dimensions	117x507x409	
Machine occupation size	268.6x378(When tray expanded: 366.9x378) (When connecting it with main unit)	
Weight	7.5kg	

Finisher (100-sheet stitch compliant) (MX-FNX5)			
Stacker section			
Tray Form	Top tray :Fixed Offset tray :Up and down offset tray		
Paper sizes allowed	Top tray Offset tray	A3W, A4W, A3, B4, A4, A4-R, B5, B5-R, A5, A5-R, SRA3(320x450mm), SRA4, 318x234.75mm, 312.5x220mm, 318x469.5mm, 312.5X440mm, Postcard(For only Top tray) ※A5 is feeded from Inserter Tray of Inserter Unit.	
Stored paper weight	Top tray	52 - 205g/m^2	
	Offset tray	52 - 300g/m^2	
Stored sheets (Non- stitched)	Top tray	• 500 sheets (A4, A4-R, B5, B5-R, A5, A5-R, SRA4, 318x234.75mm, 312.5X220mm) (80 g/m^2) • 250 sheets (A3W, A3, B4, 318x469.5mm, 312.5X440mm, SRA3) (80 g/m^2) • 30 sheets, Z-fold paper (A3, B4, A4R,) (80g/m^2) ※A5 is feeded from Inserter Tray of Inserter Unit.	
	Offset tray	• 3,000 sheets (A4, B5) (80 g/m^2) • 1,500 sheets (A3, B4, A4-R, B5-R, A4W, SRA4, 318x234.75mm, 312.5X220mm (80 g/m^2) • 1000 sheets (A3W, SRA3, 318x469.5mm, 312.5x440mm)(80 g/m^2) • 500 sheets (A5) (80 g/m^2) • 100 sheets (A5R) (80 g/m^2) • 30 sheets, Z-fold paper (A3, B4, A4R) (80g/m^2) ※A5 is feeded from Inserter Tray of Inserter Unit.	
Stored sheets (stitched)	2 - 9 sheets stitched 10 - 100 sheets stitched	150 bundles 200 – 30 bundles	A4, A4R, B5, B5-R
	2 - 9 sheets stitched 10 - 50 sheets stitched	150 bundles 150 – 30 bundles	A3, B4
	2 - 50 sheets stitched	30 bundles	Mixed size (without folding paper) A3 and A4, B4 and B5
Staple section			
Number of sheets to be stitched	·100 sheets(A4, B5) (80 g/m^2) · 50 sheets (A3, B4) (80 g/m^2) Mixed (same width):50 sheets Max. 2 sheets of 205g/m^2 paper+ 98 sheets of 80g/m^2 paper When Z-fold is included, 1 z-fold sheet corresponds to 10 normal sheets.		
Paper weight to be stitched	60 - 105g/m^2		
Staple Position	4 position (Top, Top Slant, Bottom, 2 Staples)		
Dimensions(W x D x H)	Paper Exit Tray stored:807mm x 730mm x 980mm Paper Exit Tray pulled out:900mm x 730mm x 980mm		
Occupied Dimension	900mm x 730mm		
Weight	72.8kg		

Saddle Finisher (for MX-M850 only) (MX-FNX7)			
Stacker section			
Tray Form	Top tray	Fixed	
	Offset tray	Up-down Offset tray	
	Saddle Tray	Fixed	
Paper sizes allowed	Top tray	A3W, A4W, A3, B4, A4, A4-R, B5, B5-R, A5-R, Postcard,	
	Offset tray		
Stored paper weight (Non-stitched)	Top tray	52 - 205g/m^2	
	Offset tray	52 - 300g/m^2	
Stored sheets	Top tray	50 sheets:B4 or more 250 sheets:A4 or less	
	Offset tray	2000 sheets: A4 1000 sheets: A3W, A4W, A3, B4, A4-R, B5, B5-R 100 sheets: A5-R*, Postcard* *Impossible to Offset.	
Stacking performance	Non-offset	12 mm or less(B5R and A5R are 50mm or less)	
	Offset	12 mm or less(B5R and A5R are 50mm or less)	
	Offset volume	30 mm	
	Stitched	3 mm or less	
Staple section			
Number of sheets to be stitched	50 sheets:A4 or less 30 sheets:B4 or more Mixed size:30 sheets Max.2 x 176g/m^2 paper+ 48 sheets x 80g/m^2 paper		
Paper weight to be stitched	60 - 105g/m^2		
Number of stored sheets when stapled (80g/m^2)	A4	2-12 sheets 150 bundles 130-50 sheets 150-40 bundles	
	A4R, B5	2-9 sheets 100 bundles 10-50 sheets 100-20 bundles	
	Others:	2-9 sheets 100 bundles 10-30 sheets 100-33 bundles	
	When mixed size: A3 and A4, B4 and B5	2-30 sheets 50 bundles	
Staple Position	4 position (Top, Top Slant, Bottom, 2 Staples)		
Manual Staple	No		
Saddle section			
Paper sizes allowed for saddle	A3W, A3, B4, A4-R, B5-R		
Paper type/weight allowed for saddle	60 - 90g/m^2, Cover is possible up to 176g/m^2.		
Stitching method	2-point center stitch		
Stitched sheet	15 sheets		
Folding location	Center folding		
Loading number of sheet	2 - 5 sheets staple:30 bundles 6 - 10 sheets staple:15 bundles 11 - 15 sheets staple:10 bundles		
Dimensions (W x D x H)	640mm x 614mm x 960mm (Tray extended: W 745mm)		
Weight	60.6Kg		
Manual Staple	No		

Finisher (for MX-M850 only) (MX-FNX6)		
Stacker Section		
Tray form	Top tray	Fixed
	Offset tray	Up and down tray
Paper size allowed	Top tray	A3W, A4W, A3, B4, A4, A4-R, B5, B5-R, A5-R, Postcard,
	Offset tray	
Stored paper weight (Non- stitched)	Top tray	52-205g/m^2
	Offset tray	52-300g/m^2
Stored Sheets	Top tray	250 sheets:A4 or less (80g/m^2) 50 sheets:B4 or more (80g//m^2) A5 is feeded from Inserter Tray of Inserter Unit.
	Offset tray	3000sheets: A4 (80g//m^2) 1500sheets: A3W, A4W, A3, B4, A4-R, B5, B5-R (80g//m^2) 100Sheets: A5-R*, Postcard* (80g//m^2) *Impossible to Offset.
Staple section		
Number of sheets to be stitched	50 sheets:A4 or less 30 sheets:B4 or more Mixed (same width):30 sheets Max. 176g/m^2 paper 2 sheets+80g/m^2 paper 48 sheets	
Number of stored sheets when stapled (80g/m^2)	A4	2-19 sheets 150 bundles 20-50 sheets 150-60 bundles
	A4R, B5	2-14 sheets 100 bundles 15-50 sheets 100-30 bundles
	Others:	2-14 sheets 100 bundles 15-30 sheets 100-50 bundles
	When mixed size: A3 and A4, B4 and B5	2-30 sheets 50 bundles
Paper weight to be stitched	60-105g/m^2	
Staple position	4 position (Top, Top Slant, Bottom, 2 Staples)	
Manual staple	(When the inserter is installed, it can be operated on the operation panel of the main unit.)	
Dimensions (W x D x H)	640mm x 614mm x 960mm (Tray extended: W 745mm)	
Weight	46.0kg	

Saddle Unit (MX-FNX8)	
Through Pass Section	
Paper Size	All papers that can be feed from the main unit or inserter. A3W, A4W, A3, B4, A4, A4-R, B5, B5-R, A5,A5-R Postcard, SRA3, SRA4, 318x469.5mm, 318x234.75mm, 312.5x440mm, 312.5x220mm, Postcard A5 is feeded from Inserter Tray of Inserter Unit.
Paper Weight	52g/m^2 - 300g/m^2
Saddle section	
Paper sizes allowed for saddle	A3W, A3, B4, A4-R, B5R
Paper type/weight allowed for saddle	60 - 90g/m^2, Cover is possible up to 176g/m^2.
Stitching method	2-point center stitch
Stitched pages	15 sheets
Folding location	Center folding
Loading number	2 - 5 sheets staple:30 bundles 6 - 10 sheets staple:15 bundles 11 - 15 sheets staple:10 bundles
Dimensions (W x D x H)	600mm x 727mm x 979mm
Weight	65.2kg or less

Inserter (MX-CFX2)	
Tray	2 Tray
Paper Capacity (80 g/m^2)	Upper tray: 200 sheets Lower tray: 200 sheets
Paper Weight(Feeder)	60-205 g/m^2
Paper Weight (Through pass)	52-300 g/m^2
Paper Size (Feeder)	Auto-AB : A3W, A4W, A3, B4, A4, A4-R, B5, B5-R, A5, A5-R Manual : SRA3(320x450mm), SRA4, 318x234.75mm, 312.5X220mm ,318x469.5mm, 312.5X440mm Custom Size : Main scanning: 140-320mm Sub scanning: 140-470mm A5 is feeded from Inserter Tray of Inserter Unit.
Paper size (Through pass)	A3W, A4W, A3, B4, A4, A4-R, A5, B5, B5-R, A5-R, SRA3(320 x 450mm), SRA4, 318 x 234.75mm, 312.5 x 220mm, 318 x 469.5mm, 312.5 x 440mm
Dimensions (W x D x H)	Overall Height:545mm x 732mm x 1271mm (Tray extended: W 690mm)
Weight	50kg or less

Folding Unit (MX-FDX1)				
Through Pass Section				
Paper Size (Through pass)	All papers that can be feed from the main unit or inserter. A3W, A3, B4, A4, A4-R, B5, B5-R, A5, A5-R SRA3(320 x 450mm), SRA4, 318x234.75mm, 312.5x220mm, 318x469.5mm, 312.5X440mm, Postcard A5 is feeded from Inserter Tray of Inserter Unit.			
Paper Weight	52g/m^2 - 300g/m^2			
Folding Section				
Processing performance	50 sheets/minute(A4R)			
Folding Type	Z-folding			
Adjustment of Folding Position (1st time)	Available(±4mm), Adjustment pitch 0.1mm Controlled by the main unit.			When folding paper to half, if you set + value(default is 0 mm), edge of paper which is folding side moves to outside, if you set – value, edge of paper which is folding side moves to inside.
Adjustment of Folding Position (2nd time)	Size	Adjustment range(mm)	Pitch	When folding paper to one-quarter, If you set + value(default is 2mm inside), edge of paper moves to inside, If you set – value, edge of paper moves to outside.
	A3R	-4 - 23	0.1mm	
	B4R	-4 - 38		
	A4R	-4 - 8		
Paper size	A3,B4,A4-R			
Paper weight	60-90g/m^2			
Dimensions	177mm(W) x 634mm(D) x 980mm(H)			
Weight	53.2kg or less			

GBC punch Unit		
Form	Floor type	
Transport speed	85-110 sheets per minute	
Dimensions(W x D x H)	305mm x 978mm x 724mm	
Weight	70kg	
Through pass section		
Paper weight	52-300 g/m^2	
Paper size	Min.100 x 148mm- Max.330 x 630mm	
Punch section		
Punch style	In Line punch	
Die-set system	GBC 11-holes, VeloBind, GBC 19-holes, CombBind/GBC Type, GBC 21-holes, WireBind 2:1, GBC 32-holes, WireBind 3:1, GBC 32-holes, ProClick GBC 44-holes	
Punchable paper weight	75-216 g/m^2	
Maximum sheet size	Letter system punch	279x216mm
	A4 system punch	297x210mm

Note: When GBC punch function is used, other finishing functions (Staple, Saddle stitch, Z-folding) can not be used at the same job.

Combination of paper feeding options

There are 7patterns of 'Combination of paper feeding options'.
(About 'Paper Feeding Options', the 'No option pattern' can be chosen.)

A3 LCT (3trays)	4000 sheets	✓		✓				
A4 LCT (3trays)	4550 sheets		✓		✓			
Multi Bypass tray(For LCT)	500 sheets	✓	✓					
A3 LCC (1tray)	3000 sheets					✓*		
A4 LCC (1tray)	3500 sheets						✓	
Multi Bypass tray	100 sheets					✓	✓	✓
Total Paper Capacity (MFP & options)		7500	8050	7000	7550	6100	6600	3100

* A3LCC is only for MX-M850.

Combination of paper exit options

There are 17patterns of 'Combination of paper exit options' for MX-M850.
There are 15patterns of 'Combination of paper exit options' for MX-M950 / M1100.
(About 'Paper Exit Options', the 'No option pattern' can not be choiced.)

Finisher (50 sheets staple)																✓**
Saddle Stitch Finisher															✓**	
Finisher (100 sheets staple)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
GBC Punch Unit	✓	✓	✓	✓			✓	✓	✓							
Saddle Unit	✓	✓		✓	✓	✓	✓			✓		✓				
Folding Unit	✓	✓	✓		✓	✓		✓			✓		✓			
Inserter	✓		✓	✓	✓				✓	✓	✓			✓		

** Finisher and Saddle Stitch Finisher are only for MX-M850. And A3LCT can not be installed with them.

Combination of Output Process

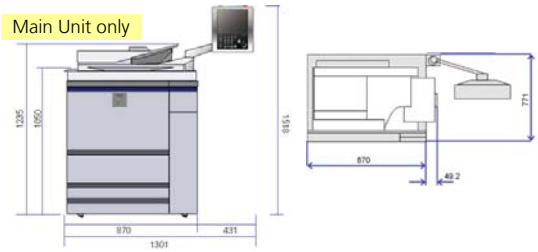
	Offset	Staple	Saddle Stitch	Punch	GBC Punch	Z-fold	Punch + Staple	Z-fold+ Staple
Offset		N/A	N/A	Yes	Yes	Yes	N/A	N/A
Staple	N/A		N/A	Yes	N/A	Yes	----	----
Saddle Stitch	N/A	N/A		N/A	N/A	N/A	N/A	N/A
Punch	Yes	Yes	N/A		N/A	N/A	----	N/A
GBC Punch	Yes	N/A	N/A	N/A		N/A	N/A	N/A
Z-fold	Yes	Yes	N/A	N/A	N/A		N/A	----
Punch + Staple	N/A	----	N/A	----	N/A	N/A		----
Z-fold+Staple	N/A	----	N/A	N/A	N/A	----	----	

Yes : Possible
N/A : Impossible
---- : Not applicable

Dimensions

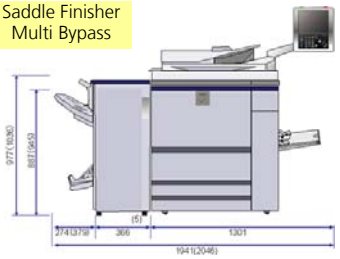
(Note: MX-M850/950/1100 requires at least one finishing option. Some diagrams without finishing option are only F.Y.I.)

Main Unit only

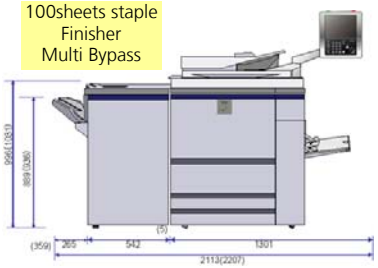


With a Finisher

Saddle Finisher
Multi Bypass

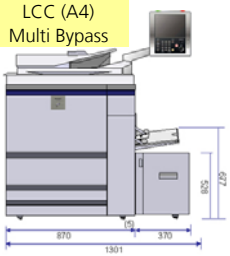


100sheets staple
Finisher
Multi Bypass

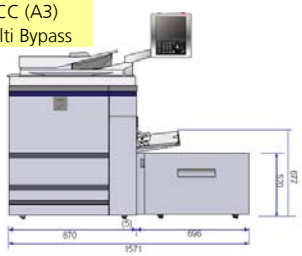


With a paper supply unit

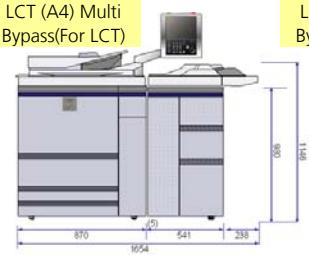
LCC (A4)
Multi Bypass



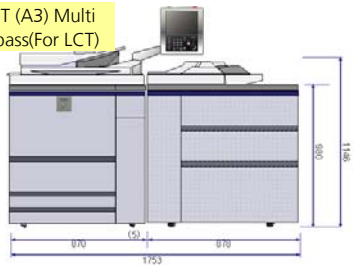
LCC (A3)
Multi Bypass



LCT (A4) Multi
Bypass(For LCT)

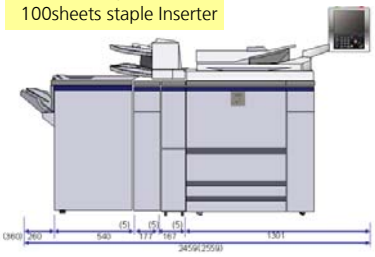


LCT (A3) Multi
Bypass(For LCT)

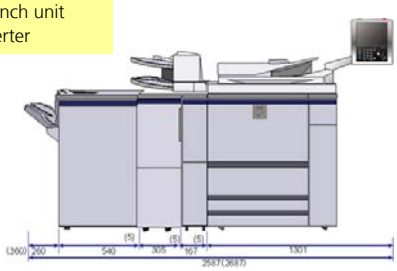


Combination

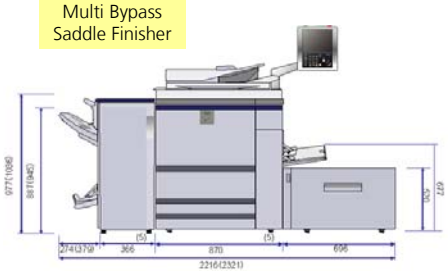
Finisher
Folding Unit
100sheets staple Inserter



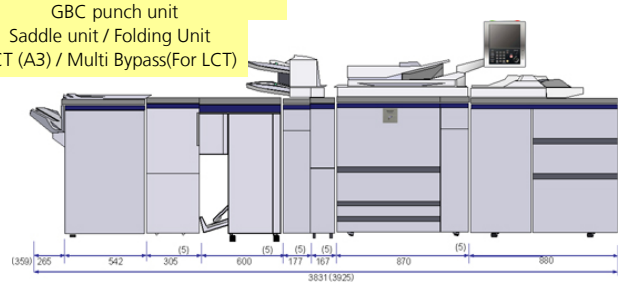
100sheets staple Finisher
GBC punch unit
Inserter



LCC (A3)
Multi Bypass
Saddle Finisher



100sheets staple Finisher
GBC punch unit
Saddle unit / Folding Unit
LCT (A3) / Multi Bypass(For LCT)



Printer Expansion Kit (MX-PBX2)	
Packaged items	Printer Expansion memory(512MB) Driver CD-ROM Application number seal /Product key sheet
Support OS	Refer to Printer Functional Specification, Supported OS.
Product key	Available
Software included in CD-ROM	Integrated installer / PCL5e/PCL6 Printer Driver / PAU(Printer Administration Utility) / SMON(Status Monitor) / PC- Fax Driver / PS/PPD Driver(Mac) / PPD Driver(Windows) / Custom PS Driver(Windows) / SC-Print2005 / SC-Port Monitor Driver / PCL Font / Help / Online manual Read me

EFI Printer Controller (MX-PEX3)		
Packaged items	Controller Server, User CD(Driver, Utility), System CD(2), Document CD(PDF manual), Welcome(Publishing), Release Note(Publishing), Power Code, Packing package	
Hardware		
CPU	Intel Celeron 2.8 GHz	
Memory Capacity	STD 256MB, OPT 256MB	
HDD Capacity	3.5 inch, 80 GB	
Interface	10/100/1000Base-T(RJ45)On board	
Page-description language	Adobe PostScript 3,PCL 6/5e	
Embedded Font	PS	Roman 136 fonts
	PCL	80 fonts
Resolution (Continuous tone)	600dpi x 600dpi, 1200dpi x 1200dpi	
Network		
Supported Protocol	TCP/IP, AppleTalk(EtherTalk),SPX/IPX	
Supported OS	Windows 2000/XP/2003Server Mac OS upper 10.2.8, and 10.4.x	

Interface Kit for EFI Printer Controller (MX-PXX3)	
Packaged items	I/F Board (I/F Board, MFP main unit angle), Connection cable, Connection cable (Ethernet Cross cable 2.95m), MFP Supplementation manual (Includes Product key serial number)

PS Expansion Kit (MX-PKX4)	
Packaged items	CD-ROM, Application No. seal/Product key sheet
Software included in CD-ROM	Printer Font
Product key	Available

Data Security Kit (MX-FRX8 : CC version / MX-FRX8U non-CC version)		
Packaged items	Non-CC version	Set of security ROMs (Certification not required) IPD boardx2 Manual Installation procedure manual
	CC version	Set of security ROMs (Certificated firmware) IPD boardx2 Manual English (Other languages : PDF) Supplement sheet Installation procedure manual Installation Check List Certification Label Mass production will start after CC certification is acquired.
Manual	·US English· German· French· Spanish· Dutch· Italian· Swedish· Norwegian· Finnish· Danish	
Installation procedure manual	5 languages(Japanese/English/German/French/Spanish)	
Supplement (CC version Only)	Japanese/English bilingual	
Installation Check List (CC version Only)	English	
Certification Label (CC version Only)	Shipped with labeled on the carton, or included in the carton.	
Application Number	Described in the manual.	
Product key	Available(Application number is described to manual.)	

Network Scanner Expansion Kit (MX-NSX1)	
Included items	Product key sheet (network scanner) Sharpdesk CD-ROM Sharpdesk installation guide Sharpdesk serial number (10 licenses, pasted on the installation guide)
Included software in the CD-ROM	Sharpdesk (Ver.3.2) Network scanner tool Internet Explorer

Colour Expansion Kit (MX-EBX1)	
Packaged items	Memory 256+512MB IPDboard x2 (for original cover and DF) Application No. attached/ Paper with the product key
Product key	Available

Sharpdesk License Kit (MX USX1, USX5, US10, US50, USA0)	
1 license	MX-USX1
5 licenses	MX-USX5
10 licenses	MX-US10
50 licenses	MX-US50
100 licenses	MX-USA0

Fax Expansion Kit (MX-FXX1)	
Packaged items	External box for Fax functional expansion Modular code Parts for mounting Fax memory (8MB) Installation procedure manual Fax quick guide
Installation procedure manual	4 countries (English/German/French/Spanish)
Outer colour	Pastel white

Internet Fax Expansion Kit (MX-FWX1)	
Packaged items	Installation advisory (in 6 languages) / Product key sheet (internet Fax) / Internet Fax CD-ROM (This is a patch for the 'PC-Fax driver'. Default PC-Fax driver doesn't include the 'PC-internet Fax function.)

Application Integration Module (MX-AMX1)	
Condition for installation	Network Scanner (MX-NSX1) is required.
Packaged items	Instruction manual Product key sheet Sharpdesk CD-ROM Sharpdesk license sheet Application number (Sharpdesk 1 license, pasted on the product key sheet)
Included software in the CD-ROM	Same as Sharpdesk CD-ROM in the Main Unit

Application Communication Module (MX-AMX2)	
Packaged items	Instruction manual Sample application CD-ROM Application number
Included software in the CD-ROM	Application communication kit sample application

External Accounting Module (MX-AMX3)	
Packaged items	Instruction manual Sample application CD-ROM Application number
Included software in the CD-ROM	External account kit sample application

■ Functions

Copy Functions				
Copy Speed (cpm)	Same as the engine speed for all copies of equal size / reduction / enlargement.			
First Copy Time				
	Engine	85ppm	95ppm	110ppm
	Original Cover	4.0 seconds or less	3.2 seconds or less	3.2 seconds or less
	DSPF	6.3 seconds or less	5.5 seconds or less	5.5 seconds or less
	* Measuring Conditions Feeding A4 paper from the main unit tray Polygon in rotation			
Document Changing Speed (in copy mode)				
	Engine	85ppm	95ppm	110ppm
	S to S	85cpm (100%)	95cpm (100%)	110cpm (100%)
	*S to S : A4 original, 11 pages and 1 copy (not including the first copy) Monochrome: 600x300dpi (default value)			
Serial Copy	Maximum 9,999 pages			
Copy Magnification Ratio	Same size 1:1±0.5% 25%, 50%, 70%, 81%, 86%, 100%, 115%, 122%, 141%, 200%, 400%			
Zoom	25 – 400% (with document sender: 25-200%)			
Preset magnification ratio	4			
Exposure mode	Auto, Text, Text/ Printed Photo, Printed Photo, Text/ Photo, Photo, Map, Light Original			
Manual steps	9 steps(Except automatic)			
Toner save mode	Available			
Function Special Mode	Automatic paper selection	Yes		
	Automatic magnification selection	Yes		
	Zoom	Yes		
	Paper type select	Yes		
	Auto tray switching	Yes		
	Rotated copy	Yes		
	Electronic sort	Yes		
	Rotated sort	No		
	Job reservation	Yes(99 jobs)		
	Auto tray switching	Yes(patent is expired)		
	Program call / registration	Yes(48 calls/registrations)		
	Document Filing	Yes		
	Preheat function	Yes (Setting by Key operator program)		
	Auto power shutoff	Yes (Setting by Key operator program)		
	Account Control	Yes 1,000 accounts(User Certification)		
	Tandem copy	Yes(via Network)		
	Indeterminate paper size input	Yes		
	Indeterminate Paper Size Input	Yes		
	Mixed document Feeder	Yes(Random + MIX) (Can be used with APS/AMS)		
	Margin shift	Yes(Left Right/Upper Lower)		
	Edge/center erase	Yes(Center/Edge/Center + Edge/one side erase)		
	Dual page copy	Yes		
	Cover/insertion/Tab paper insertion	Yes		
	Transparency insertion	Yes		
	Tab copy	Yes		
	Centering	Yes		
	Multi Shot	Yes (2 in 1 / 4 in 1)(Centering)		
	Card Shot	Yes		
	Pamphlet copy	Yes(Centering)		

	Book copy	Yes
	Pamphlet divide	No
	2-sided copy orientation change	Yes
	Job build	Yes
	B/W Reverse	Yes(Except UK)
	Mirror image	Yes
	Multi Page Enlargement	Yes
	A3 full bleed	Yes
	Photo repeat	Yes
	Date print	Yes
	Stamp	Yes
	Page print	Yes
	Text print	Yes
	Proof copy	Yes
	Document Control	Yes When the Security Kit is installed.
	Copy job work flow	Support by OSA
	Document count	Yes
	Reverse sequential copy	Yes
	Chapter Inserts	No
	Preview function	No
	Slow scan mode	Yes

Printer Function					
Supported OS		Custom PCL5e/6	Custom PS	PPD	Release form
Windows	98 / Me	Yes	Yes	Yes	CD-ROM
	NT 4.0 SP5 or later	Yes	Yes	Yes	Web
	2000	Yes	Yes	Yes	CD-ROM
	XP	Yes	Yes	Yes	CD-ROM
	Server 2003	Yes	Yes	Yes	CD-ROM
	Server 2003 x64	Yes	Yes	Yes	Web
	XP x64*	Yes	Yes	Yes	Web
	Vista	Yes	Yes	Yes	CD-ROM
	Vista x64	Yes	Yes	Yes	Web
Mac OS	9.0-9.2.2	No	No	Yes	CD-ROM
	X 10.1.5	No	No	Yes	CD-ROM
	X 10.2.8	No	No	Yes	CD-ROM
	X 10.3.9	No	No	Yes	CD-ROM
	X 10.4- 10.4.8	No	No	Yes	CD-ROM
*For new OS, follows the headquater's instruction.					
PDL Emulation	PCL5e compatible, PCL6 compatible, PostScript 3 compatible(Option)				

Print Function	Content	PCL6/5e	PS(OP)
Multiple Pamphlet	Binds multiple pamphlet outputs into a single booklet.	Yes	Yes
Bar code font	JetCAPS BarDIMM emulation	Yes	No
Network tandem print	Two units connected via network can be used simultaneously for a printout.	Yes	Yes (Windows only)
Windows Cluster Print	When a Windows server breaks down, a mirror server takes over and executes the suspended print job.	Yes	Yes (Windows Only)
Encrypted PDF / PDF / TIFF / JPEG direct print	PDF/TIFF/JPEG file can be printed without printer driver. (1) Printing of e-mail attachment file (2) Printing from FTP server (3) Printing from setup file on Web page (4) USB memory	Yes (No for encrypted PDF/PDF)	Yes
E-Mail To Print	Direct printing of an attached file upon receipt of the e-mail. (See (1) above)	Yes	Yes
Pull print from front panel	Browsing of FTP server from front panel and pull-printing of a specified file (direct printing). (See (2) above)	Yes	Yes
USB Pull print	Browsing of print data (including sub-folders) in a USB from the front panel and pull-printing of a specified file.	Yes	Yes
FTP push print	Forwarding the data from a client PC to a MFP server and pull-printing of a specified file (direct printing). (See (2) above)	Yes	Yes
Print by file setup on Web page [Web Submit Print]	Setting and direct printing of a file on network through Web page. (See (3) above)	Yes	Yes
Continuous print function	The function executes multiple print jobs continuously as if they are one single job even if the unit receives an end of job command, in order to support print from the application assuming printout on continuous pages.	Yes	Yes

ROPM	The function enables the printout of a multiple number of copies in one RIP processing.	Yes	Yes
Multi-access	RIP processing must be allowed during printing. Printing must also be allowed during scanning.	Yes	Yes
Paper direction setting for 2-sided printing of letterhead paper and pre-punched paper. (Logo paper print supported (SEGA/ AOK Corporation)	Pages with front-back attribute such letterhead or pre-punched paper are to be printed correctly in front-back page order for 2-sided printing.	Yes	Yes
Enable Selected Paper Type in Bypass Tray/size	For setting of Bypass tray, even if the setup values on the main unit side do not match with those on the driver side, the printing will be executed in the setting of the driver regardless of the setup values on the main unit side.	Yes	Yes
Setting environmental control under terminal server control	Print setting of each client is memorized under meta frame environment (auto print create environment). (Setup for each log-in can be skipped.)	Yes	Yes
Driver delivery function	PAU4 allows the administrator to deliver a driver to clients, or to distribute the installation using MSI.	Yes	Yes
Form overlay	The function downloads a form to the main unit beforehand, sends the contained data only, and inserts the data into the form in the main unit for printout.	Yes (5e only)	Yes
Improvement of downloading method of font form	This expands the function to prevent the deletion and overwriting of the editing functional enhancement font/form on Web page. A unified UI for the lineup is necessary. Currently, registration is done by Web page and deleted by PJL. This function is supported by HDD.	Yes (5e only)	Yes
Management of password by hidden Web page	The purpose is to prevent the access even if the hidden Web page address becomes known.	Yes	Yes
Expansion font list	In self-print of a font list, ESC command information is needed for BITMAP font. Others can be the same as Dragon.	Yes (5e only)	Yes
Bonjour for Macintosh environment	This technology detects and connects peripheral equipment on the network automatically. The dynamic network connection (computer, peripheral equipment and software) is possible without user setting.	No	Yes
Document control print	Prints patterns on paper. (When the Data Security Kit is installed.)	Yes (OPT)	Yes (OPT)
JDF Compliant	Compliant to print work flow language.	No. Support by EFI.	No. Support by EFI.
Layout Print	Layout can be selectable depending on the print object.	Yes	Yes
Chapter Inserts	Automatically inserts a blank page to set the beginning of each chapter as odd (or even) page.	Yes	No

Image Send Function			
Scanner	Scan to E-mail / Scan to Desktop (Scan data transmission not dependent on IP addresses under DHCP environment) / Scan to FTP / Scan to Folder(SMB) / Scan to USB memory / Scan to E-mail with Meta / Scan to Desktop with Meta / Scan to FTP with Meta / Scan to SMB with Meta		
Fax	Fax, Fax to e-mail (Inbound Routing) Fax to FTP/Desktop/SMB/e-mail (Document Admin)		
Internet-Fax	Internet-Fax, Internet-Fax to e-mail Full mode supported (including Simple mode)		
IP- Fax	No		
Support Image			
Mode	Scanner	Internet-Fax	Fax
File format	Monochrome: TIFF, PDF, Encrypted PDF	TIFF-FX (TIFF-F·TIFF-S)	---
	Colour / Gray scale: (option) TIFF, JPEG, PDF, Encrypted PDF)		
Image Processing			
Mode	Scanner	Internet-Fax	Fax
Original scanning colour	B/W:(STD) Full Colour, Gray Scale(Opt.)	B/W	
Halftone reproduction	Equivalent of 256 tones		
Density adjustment	Auto + 5 steps	Automatic + 5 steps	
Selection of image quality	---	Half tone (B/W Only) ON/OFF	
Resolution (depends on file format / transmission method)	100x100dpi	200x100dpi (Half Tone not allowed)	Standard (203.2x97.8dpi) (Half Tone not allowed)
	200x200dpi	200x200dpi	Fine (203.2x195.6dpi)
	300x300dpi	200x400dpi	Super Fine(203.2x391dpi)
	400x400dpi	400x400dpi	Ultra Fine (406.4x391dpi)
	600x600dpi	600x600dpi	
Specification of Addresses			
Mode	Scanner	Internet-Fax	Fax
Number of One-touch address key registration	Total (number of key) : maximum: 999		
Number of Group (1 key) address registration	Number of Group (1 key) address registration : maximum 500		
Program	48		
Resend	Call up nearest 8 addresses which are specified as a single destination. (Except USB memory, FTP, Desktop, and SMB).		
CC / BCC sending	Yes	---	
Subject	Selective/direct entry from the list		---
File name	Selective/direct entry from the list		---
Sender name	---	(1 default address fixed as a sender name)	(Selection from the list of default + 18 addresses as a sender name)
Reply to	Selective/direct entry from the list / selection from LDAP server	---	---
Transmission message (message body)	Selective / direct entry from the list. Number of characters: Maximum of 1800 half-size characters (900 full size characters)		---
Specification of Multiple Addresses			
Mode	Scanner	Internet-Fax	Fax
Broadcast	Yes (500 destinations) (e-mail / FTP /Desktop/allowed)	Yes (500 destinations)	Yes (500 destinations)

Transmission Function				
		Scanner	Internet-Fax	Fax
Memory transmission		94 destinations in all		
On-hook		---		Yes
Quick online transmission		---		Yes
Direct transmission		---		Yes (Switching:←>Switching direct transmission)
Automatically-reduced transmission		---	---	Yes
Rotated transmission		---	Yes	
Zoomed transmission		Yes (Enlargement/reduction can be set up in a range of from fixed form size to fixed form size. Reduction may be done on the receiver side with Fax / Internet-Fax sending.)		
Long Size original transmission		Yes Max.800mm(single side only / black-white 2 values only)		
Change of the number of pages for each file		Yes	---	
Restriction on transmission maximum size		Yes		---
Finish stamp function		Yes(Option) 1 stamp (on 2 position)		
Job Build		Yes		
Slow Scan		Yes		
Mixed original feeding		Yes		
Address Confirmation Function		No		Yes
Reception Function				
		Scanner	Internet-Fax	Fax
Automatic reception		---	Yes	
Manual reception		---	Yes	Yes*
Memory reception		---	Yes	
Fixed size reduced reception		---	Yes	
Rotated reception		---	Yes	
2-sided reception		---	Yes	
Anti Junk Fax Setting		---		Specified numbers only (50 numbers / 20 digits)
Staple function of received data		---	No	Yes
Paper folding of received data		---	No	Yes
Other Functions				
		Scanner	Internet-Fax	Fax
Timer		Yes		
Polling		---	---	Yes
F code communication	Sub address	---	---	Yes(20 digits)
	Pass code	---	---	Yes(20 digits)
Memory Box		---	---	Yes Up to 100 registrations allowed with Polling Memory, Confidential and Relay Broadcast Send combined. (Free area: 1 registration) Setting of the number of transmission: 1 / no limit.
Printing Page Number at Receiver		---	Yes	

Date Print	---	Yes (Date format can be switched)	
Dual Page Scan	Yes		
Confidential (receiver unit)	---		Yes (F code method)
Relay Broadcast Send	---		Yes (F code method) FAX to E-mail /FAX to Internet-Fax /FAX to FAX
Edge erase	Yes		
Center erase	Yes		
Edge side clearance	Yes		
2 in 1	No	Yes	
Suppress Background	Yes(Colour and Gray Scale Only)	---	
Card Scan	Yes		
Inbound Routing function	---	Yes Only Internet-Fax/FAX to e-mail	
Document Admin	Yes (All sent and received data, Forwarded to the e-mail/FTP/SMB/Desktop.) (Data transmission by PC- Fax / PC- Internet-Fax is allowed, too.)		

Transmission Method			
Mode	Scanner	Internet-Fax	Fax
Transmission time	---		2 seconds (super G3 / JBIG) 6 seconds level (G3 ECM)
Modem speed	---		Automatic fall-back : 33.6kbps->2.4kbps
Intercommunication	---		Super G3 / G3
ECM	---		Yes

Record Size			
Mode	Scanner	Internet-Fax	Fax
Maximum record width	---	293mm	
Record size	---	A3 - A5	

Others			
Mode	Scanner	Internet-Fax	Fax
PC- Fax	---	---	Yes
PC- Internet-Fax	---	Yes	---

Registration-Related Settings	
Item	Registerable Number
Individual/ Group	999 (Up to 500 can be registered for 1 group.)
Program	48
Memory box	Total 100 of Polling Memory/ Confidential/ Relay Broadcast
Own Number and Name Set	Internet-Fax: 1 Fax: 19 (Including 1 default)
User list(Reply-to List)	1000
Inbound Routing List	50
Sender Number/ Address Registration (Inbound Routing)	500
Subject (Send Settings)	30
File name(Send Settings)	30
Pre-set (Send Settings)	30
Metadata Set List	10
Rejected / Receivable Number	50
Rejected Address	50
Polling refusal Number	20

PC-FAX/PC-Internet-Fax operating environment	
OS	Windows 98 / Me / NT4.0 Workstation(Service Pack5,IE4.0 or more) / 2000 / XP / XP x64 / Vista / Vista x64 / Server 2003 / Server 2003 x64

PC	IBM PC/AT compatible machine		
CPU	Pentium II 300MHz or more		
Monitor	640x480 Pixels or more of screen resolution / 256 or more of colours.		
Memory	64MB or more		
HDD	Free space of 50MB or more		
Interface	USB 2.0 / 10BASE-T /1 00BASE-TX		
PC-FAX/PC-Internet-Fax functions			
PC-FAX Send	Yes (with FAX equipped) Maximum of 64 digits for Fax number (including sub-address and passcode)		
PC-Internet-Fax Send	Yes (Necessary options: Internet-Fax expansion kit) Maximum of 64 digits for Internet-Fax address		
Resolution	200x100dpi / 200x200dpi / 200x400dpi / 400x400dpi / 600x600dpi(Only PC-Internet-Fax)		
Broadcast transmission	Yes (FAX, Internet-Fax mixture possible. Maximum of 500)		
F code transmission	Yes	Sub-address	Yes Maximum of 20 digits
		Passcode	Yes Maximum of 20 digits
Phone book registration / transmission function	Yes		
Attach cover sheet function	Yes (Not allowed for broadcast transmission)		
Create cover sheet function	Yes		
Preview function	Yes		
Transmission confirmation (Notice to PC by NJR)	Yes		

Document Filing Function		
Number of files that can be saved in main and user folders.	30GB:	Black and White data (Text): 45,000 pages or 3,000 files*1 Gray data (Text): 8,000 pages or 3,000 files*1 Gray data (Text and Photo): 3,000 pages or 3,000 files Full colour data (Text and Photo): 1,600 pages or 3,000 files*2
Number of files that can be saved in quick file folders.	10GB:	Black and White data (Text): 14,000 pages or 1,000 files*1 Gray data (Text): 2,500 pages or 1,000 files*1 Gray data (Text and Photo): 1,000 pages or 1,000 files Full colour data (Text and Photo): 500 pages or 1,000 files*2
Number of folders that can be saved as user folders	Max(500)folder	
Number of users that can be registered	Same as that of account users of the main unit	

*When the standard document(A4 monochrome: test sheet D) is used.

*1:When the standard document(A4 monochrome: test sheet C) is used.

*2:When the colour document (A4, greg's fruit) is used.

*3:Colour expansion kit is installed.

Text original A4:
Test Sheet C

Color original A4:
Greg's fruit

User Authentication Function	
Login Method	User authentication by login names and passwords
	User authentication by login names, passwords, and e-mail addresses
	User authentication only by user numbers (5-8 digits variable)
	Device account mode
External Authentication	External authentication by LDAP
Number of user registration	1000 users (except 3 default users)
Number of page limit groups	Up to 8 groups
Number of authority groups	Up to 8 groups (except 3 default groups)

CONFIGURATIONS

■ Option List

Model name	Description	MX-M850	MX-M950 MX-M1100	Remark
MX-LCX6	3,500 sheets large capacity tray(A4)	Opt.		MX-MFX1 is required
MX-LCX3N	3,000 sheets large capacity tray(A3-B5)	Opt.	N/A	MX-MFX1 is required
MX-LCX4	large capacity 3 trays(A4)	Opt.		
MX-LCX5	large capacity 3 trays(A3)	Opt.		Can not be installed with MX-FNX6 / MX-FNX7
MX-MFX1	Multi bypass tray	Opt.		
MX-MFX2	Multi bypass tray for Large capacity 3 trays	Opt.		'3 tray LCT' is required
MX-FNX5	Finisher (100 sheets staple type)	Opt.		
MX-FNX6	Finisher	Opt.	N/A	Can not be installed with MX-LCX5
MX-FNX7	Saddle stitch finisher	Opt.	N/A	
MX-CFX2	Inserter	Opt.		MX-FNX5 is required
MX-FDX1	Folding unit	Opt.		
MX-FNX8	Saddle unit	Opt.		
MX-GBX1	GBC punch unit	Opt.		MX-FNX5 is required At least one option is required from MX-CF2 / MX-FDX1 / MX-FNX1
MX-GPX1	Punch cartridge	Opt.		11 hole die set (Velobind)
MX-GPX2	Punch cartridge	Opt.		19 hole die set (CombBind)
MX-GPX3	Punch cartridge	Opt.		21 hole die set (WireBind Twin Loop Wire 2:1)
MX-GPX4	Punch cartridge	Opt.		32 hole die set (WireBind Twin Loop Wire 3:1)
MX-GPX5	Punch cartridge	Opt.		(Pro Click)
MX-GPX6	Punch cartridge	Opt.		(Colour Coil)
MX-PNX3A, PNX3C,PNX3D	Punch unit for Finisher (100 sheets staple type)	Opt. (100 sheets staple type Finisher is required.)		A : 2 or 3 holes, C : 2 or 4 holes, D : 4 hole wide
MX-PNX4A, PNX4C,PNX4D	Punch unit for Finisher / Saddle stitch finisher	Opt. (Finisher or Saddle stitch finisher is required.)	N/A	A: 2 holes, C: 2 or 4 holes, D: 4 hole wide
MX-PBX2	Printer expansion kit	Opt.		
MX-PEX3	EFI printer controller	Opt.		
MX-PXX3	EFI printer controller interface connection kit	Opt.		
MX-PKX4	Postscript 3 expansion kit	Opt.		MX-PBX2 is required
AR-PF1	Barcode font kit	Opt.		MX-PBX2 is required
MX-FWX1	Internet-FAX expansion Kit	Opt.		
MX-NSX1	Network scanner expansion kit	Opt.		
MX-EBX1	Colour expansion kit	Opt.		
MX-USX1	Sharpdesk ver3.2 1-License Kit	Opt.		
MX-USX5	Sharpdesk ver3.2 5-License Kit	Opt.		
MX-US10	Sharpdesk ver3.2 10-License Kit	Opt.		
MX-US50	Sharpdesk ver3.2 50-License Kit	Opt.		
MX-USA0	Sharpdesk ver3.2 100-License Kit	Opt.		
MX-FXX1	Fax expansion kit	Opt.		
MX-AMX1 *	Application integration module	Opt. (MX-NSX1 is required)		
MX-AMX2 *	Application communication module	Opt.		
MX-AMX3 *	External account module	Opt.		

MX-FRX8	Data security kit	Opt.	Production start date : Aug
MX-FRX8U	Data security kit commercial version	Opt.	Production start date : TBD
AR-SU1	Stamp unit	Opt.	
AR-SV1	Stamp cartridge	Opt.	
-	USB memory	commercial item	
-	USB HUB	commercial item	
Parts code	USB HUB mounting	Service parts	
-	USB Keyboard	commercial item	
-	Keyboard stand	Opt.	
Parts code	General-Purpose Stand	Service parts	

* can't be installed with data security kit C.C.version

■ Functional Combination

	Copy	Network Printing (PCL)	Network Printing (PS/MacOS)	EFI Printing	Network Scan (B/W)	Network Scan (colour)	I-Fax	Fax	Sharp OSA	Filing (B/W)
MX-M850 MX-M950 MX-M1100	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MX-PBX2		✓	✓							
MX-PKX4			✓							
MX-PEX3				✓						
MX-PXX3				✓						
MX-NSX1					✓	✓				
MX-EBX1						✓				
MX-FWX1							✓			
MX-FXX1								✓		
MX-AMX1										
MX-AMX2/3									✓	

✓ required

■ Consumables List

A: Recommended B: Usable C: Not usable

Model name	Contents	Qty	Life	Min. Order Qty	Remark	850	950 1100
MX-850GT	Toner	x 1	120k	4		A	
MX-850GV	Developer	x 1	500k	5 (465g x 2 bags x 5)	Using 2 bags	A	
MX-850GR	Drum	x 1	1000k	4		A	
MX-850KA	500k Maintenance Kit	x 1	500k	5		A	
MX-850KB	Transfer Cleaning Kit	x 10	1000k x 10	1	MX-850KB = MX-850KF x 10	A	
MX-950KC	Fusing Unit Cleaning Kit (For M950/ 1100)	x 1	500k	10		C	A
MX-850TT	Transfer Belt Kit	x 1	1000k	5		A	
MX-850HK	Heat Roller Kit (For M850)	x 1	1000k	5		A	C
MX-950HK	Heat Roller Kit (For M950/ 1100)	x 1	1000k	5		C	A
MX-850CB	Cleaner Blade	x 1	500k x 10	1	MX-850CB = MX-850BL x 10	A	
MX-950WC	Web Cleaning Kit	x 1	500k	10		A	
MX-850HB	Waste toner bottle	x 1	500k	5		A	
MX-850FL	Filter Kit	x 1	500k	10		A	
MX-850DF	DSPF Roller Kit	x 1	200k	10		A	
MX-850RT	Main Unit Paper Supply Kit	x 1	200k	10		A	
MX-950WU	Web Cleaning Unit	x 1	500k	1		A	
MX-850FU	Fusing Unit (For M850)	x 1	500k	1		A	C
MX-950FU	Fusing Unit (For M950/ 1100)	x 1	500k	1		C	A
MX-850TU	Transfer Unit	x 1	500k	1		A	
AR-SC2	Staple Cartridge	X3	5,000 x 3	20	For MX-FNX6/7	A	C
MX-SCX2	Staple Cartridge	X3	5,000 x 3	12	For MX-FNX5	A	
MX-SCX3	Staple Cartridge (for saddle stitch)	X4	5,000 x 4	40	For MX-FNX7/8	A	
AR-SV1	Stamp Cartridge	X2	-	20	For AR-SU1	A	